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The Chemical Market Authority Since 1871

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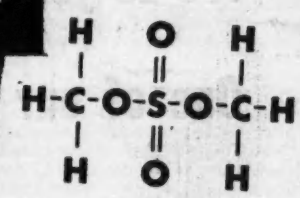

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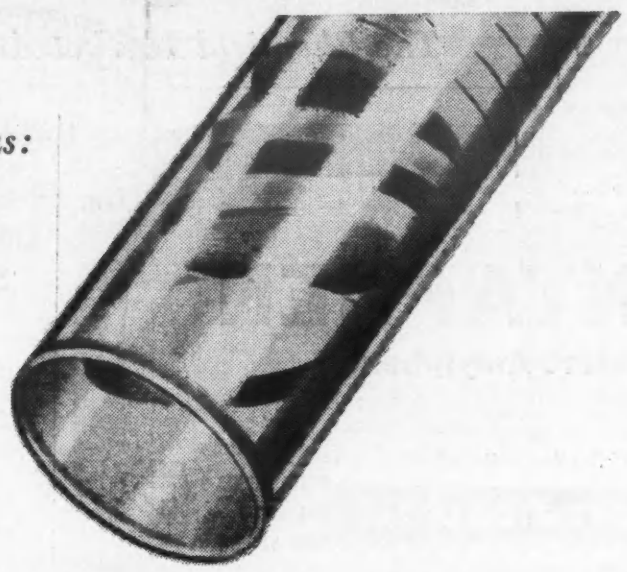

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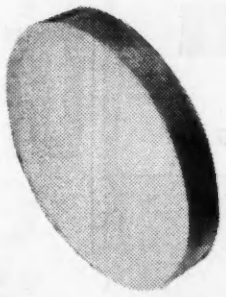

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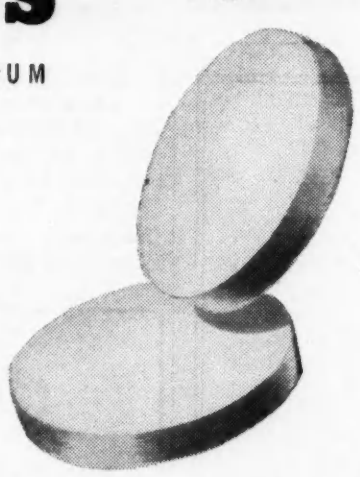

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PHS Drug List Curbs Gov't Hospital Stocks

The Public Health Service has informed all federal hospitals and clinics under its supervision that their purchases and inventories of drugs are to be limited in the future to a basic list which the service has recently drawn up and circulated to all stations. Any drug not on the list may not be stocked unless it has been approved by the station pharmacy committee.

The action came to light with the issuance of Public Health Service Publication No. 246 titled, "Basic Drugs—US Public Health Service Hospitals and Clinics, 1953," a booklet of 165 pages listing all the drugs that may be kept in stock, a description of their properties and the purposes for which they are to be used.

Members of the drug industry who have seen the booklet, which has just come off the presses of the Government Printing Office, have indicated concern over its implications because of the restrictions that it apparently places on this important market for the products of the drug industry. Comments also have been made that it smacks of socialized medicine and appears to follow the system being employed in Britain.

Sources for Selections

Drugs contained on the list are drawn from the United States Pharmacopeia, the National Formulary, New and Non-Official Remedies, and Accepted Dental Remedies. It contains some drugs by tradenames, but not others of a similar kind and purpose.

In the foreword to the booklet, signed by Dr. G. H. Hunt, assistant surgeon general and associate chief of the Bureau of

—*Continued on page 67*

Export Controls to 1956 Voted by Senate Committee

The senate banking committee last week voted a favorable report on S. 1739 to extend for three years the present authority to regulate and control exports from the United States. The bill originally proposed to extend the authority until July 1, 1958, but the committee reduced the period to 1956.

No opposition was expressed in the committee against the bill, and it is expected that it will be passed quickly by the senate, probably at an early date. House approval also is likely.

The house banking committee voted a favorable report April 29 on a similar bill, H.R. 4882, and the rules committee announced that it would come before the house at an early date for passage with a limitation of one hour on general debate.

Petroleum Alkylate Gets Separate Output Target

The Office of Defense Mobilization last week announced a separate expansion goal for petroleum alkylate. The goal calls for an increase in production capacity of 30,000 barrels of alkylate per day, with the expansion to be completed by January 1, 1955. In the past, alkylation facilities had been considered as a part of the expansion program for basic refining facilities.

The target of 30,000 barrels of production capacity fixed last week will be in addition to existing facilities and to new units on which construction already has been undertaken, ODM stated. The new expansion goal includes specialized facilities necessary to the use of alkylates. Companies interested in the expansion goal are instructed to contact the Petroleum Administration for Defense.

ODM Issues Additional Certificates of Necessity

Certificates of necessity for accelerated tax amortization were issued to projects in several areas of the chemical industry, including an investment of $25,740,500 for increasing production of titanium, during the period April 9 to 22 by the Office of Defense Mobilization.

The certificates were among 202 new or expanded facilities approved by the agency having an investment value of $227,874,894. With the latest list of certificates, accelerated tax amortization has been allowed on projects valued at $26,219,468,000. Of this amount 61 percent or $15,984,184,000 is eligible for rapid depreciation.

Included among the latest list of certificates were the following and the percentage of cost allowed for accelerated amortization:—

Aluminum castings—Aluminum Company of America, Bridgeport, Conn., $45,000 invested and 65 percent allowed.

Aluminum plate and sheet—Fairmont Aluminum Company, Fairmont, W. Va., $71,504 invested and 50 percent allowed.

Aviation alkylate facilities—American Mineral Spirits Company, Toledo, Ohio,

—*Continued on page 80*

Chemical Industry Urges Trade Pacts Act Extension for 1 Year

Congress was urged last week by the chemical industry to extend the trade agreements act for another year, as recommended by President Eisenhower, while a comprehensive study is made of overall foreign economic policies, and at the same time strengthen certain of its provisions to safeguard American industry against being seriously injured by foreign competition.

The industry's views were made known to the house ways and means committee during hearings on the Simpson bill to extend the law and strictly limit the President's authority to negotiate tariff adjustments that might prove injurious to domestic producers. The rearings are expected to continue for about three weeks with representatives of a great number of industries participating.

Speaking for the chemical industry were Fred G. Singer, representing the Manufacturing Chemists' Association and Chemical Alliance, Inc., and Cary R. Wagner, president of the Synthetic Organic Chemical Manufacturers Association. While the two spokesmen were in general accord, there was a notable difference in the tone of their statements. Mr. Singer's was more of a middle-of-the-road presentation, while Mr. Wagner was more vigorous in request for changes in the law.

Presidential Powers at Issue

This was particularly marked in their statements relative to the provisions of the Simpson bill which take away the President's powers to overrule the Tariff Commission on peril point and escape clause actions. Mr. Singer's comments on these provisions were:—

"These sections and sub-sections carry through the bill the theme that the fact-findings of the Tariff Commission and its recommendations be made binding on the President, and by inference on the congress, in peril point, escape clause, agricultural commodity, unfair competition, and cost of production investigations. We consider such an increase in the Tariff Commission's power unreasonable and unwarranted.

"The Tarriff Commission is set up specifically as a fact-finding body consisting of a group of experts especially trained in that field of work. That is the great value of the Tariff Commission to the congress, the President, and the public. In our opinion, it is essential to keep the Tariff Commission strictly on that basis and to establish clearly that the findings and recommendations of the Commission are final as to fact. But, we recognize that action to be taken cannot be determined by facts alone and probably should be tempered by overall considerations which in this case are national or public policies."

SOCMA's Views on 1951 Act

Mr. Wagner's comments were:

"The so-called 'escape clause' as utilized by the President prior to the passage of the 1951 act carried little substantive force and, as administered, afforded no protection. The 1951 trade agreements extension act was a tremendous improvement. However, it remained in the discretion of the President to follow or not to follow the recommendations of the Tariff Commission after an escape clause proceeding, and it remained in the discretion of the President whether or not

—*Continued on page 83*

Calcium-Ammonium Nitrate Traffic at Ports to Continue

The United States Coast Guard announced last week that it will continue to permit the loading and unloading of calcium-ammonium nitrate fertilizer at various ports of the United States where the port security and local regulations are met. Handling of the material will be subject to the requirements of 46 CFR, part 146, as they relate to nitrates not otherwise specified.

When the Texas City disaster occurred in 1947, the Coast Guard immediately clamped down tightly on the handling of this material at the ports and prohibited its loading or discharge except at isolated waterfront facilities. Last October, in order to satisfy agricultural needs for this fertilizer, an interim order was issued permitting the resumption of port traffic in this material if the port security and local regulations were met. This emergency order has now been embodied in interim instructions of the commandant.

The instructions further state:—

"While mixtures of 60 percent ammonium nitrate with 40 percent ground limestone and/or dolomite do not create any unusual hazards beyond which are well recognized for oxidizing materials, the following safety measures shall be recognized and applied to water transportation of this material:—

"1. If the material is shipped in bulk and becomes caked in the hold of a vessel, it is not safe to break up the caked material by blasting with explosives.

"2. When fighting a fire in which these materials are involved, the fire should be flooded with a large amount of water, since it is not possible to extinguish such fires with steam or other smothering agents. The presence of the nitrate provides sufficient oxygen to support a fire even though air is excluded.

"3. As in the case of all stowage of oxidizing materials, including all of the other nitrates of this character, the amount of combustible dunnage should be kept to a minimum in order to reduce the extent and intensity of a fire should one start in the hold where this material is stored."

Oil and Bentonite Lands Are Offered for Leasing

The Department of the Interior announced last week that about 212 acres of Kansas oil land and an eight-acre bentonite clay tract will be offered for leasing this month. The Kansas land is within the Smolan oil field and will be put up for oil and gas leasing at a competitive bid sale to be held by the Bureau of Land Management May 6 at 1 p. m., EST. The bentonite clay lease, which is in Weston County, Wyo., will be offered to qualified bidders through sealed bids at a sale to be held by BLM May 13 at 1 p. m., EST.

The Kansas land comprises the warehouse site of the Smoky Hill Air Force Base in Saline County, Kans., and covers 212.24 acres. The lease will provide for a royalty of 12½ percent and an annual rental or minimum royalty of $1 per acre. Lessee is required, within sixty days of the effective date of the lease, to begin drilling, allowing not more than thirty days between the completion of one well and the commencement of the next, until a well has been drilled to production or abandonment.

The Bentonite lands offered for lease are located about three miles northwest of Colloid, Wyo., and are described as follows:—E½SE½ sec. 17, T. 48 N., R. 65 W., 6th P. M. The lease will run for a five-year period, and the royalty will amount to 50 cents a ton of 2,000 pounds, mine run, with a minimum royalty of $250 annually. Also required will be a rental of $1 an acre payable in advance at the beginning of each lease year, with produc-

—*Continued on page 83*

Additives in Food Measure Inroduced; Future Doubtful

Representative A. L. Miller of Nebraska introduced his bill in the house April 29 for restricting the use of chemical additives in foods. The bill carries the number H.R. 4901 and was referred to the house interstate commerce committee for consideration. It is similar to his earlier bill, H.R. 4427, for controlling the use of pesticides in foods.

No plans have been made by Chairman Charles Wolverton of the interstate commerce committee for action on the bill and it is doubtful whether the measure will be placed on the committee's agenda for this session. The bill is expected to encounter considerable opposition. Whereas Mr. Miller's pesticides bill has been endorsed by the National Agricultural Chemicals Association, there have been no similar expressions of approval of the second bill from the industries chiefly affected.

Interior Dept. Gets Funds for Oil Shale Work; 2 Projects Rejected

The house last week voted to restore funds in the appropriation bill for the Department of the Interior to continue the experimental work at Rifle, Col., on production of synthetic liquid fuels from oil shale, but refused to continue the experimental work on coal-to-oil at Louisiana, Mo., or underground coal gasification at Gorgas, Ala.

The action on the Rifle, Col., project was a reversal of the position taken earlier by the house appropriations committee, which has proposed that no funds be allotted for demonstration work of producing synthetic liquid fuels since the experiments had progressed to a point where little more could be learned, except at great expense, and therefore it was time for private industry "to take over."

The decision to provide funds for the oil shale project—$1,217,104 for fiscal year 1954—was grounded on the belief that there is a very good chance of reducing costs of production to levels competitive with petroleum in the very near future, possibly in a year or two. This was not the case with the demonstration plant at Louisiana, Mo., engaged in coal hydrogenation and gas synthesis, and Secretary of the Interior Douglas McKay had asked that the plant be placed in standby.

Obsolescence of Processes

It was brought out in the debate that another argument against appropriating more funds for the Louisiana, Mo., plant is that there is every likelihood that the processes being experimented with are already obsolete. This is because experimental work being carried on at Bruceton, Pa., and Morgantown, W. Va., also based on coal, indicates the successful development of a new "one-step" hydrogenation process, which will be far cheaper to operate. This is known as the Pelipetz process. The appropriation bill carries $767,000 to continue laboratory work in this field.

The disallowance of funds to continue the synthetic liquid fuels program proved to be the most controversial item in the money bill for the Interior department. Rep. Emanuel Celler of New York opened the attack on the committee's recommendations against appropriations for the program, with a review of the history of the program. He intimated that a political debt was being paid off to the petroleum industry, a charge which was immediately and vigorously denied by the Republicans.

Commercialization Seen Near

Mr. Celler's point was that about $75,000,000 has been invested so far by the government in synthetic liquid fuels work, and progress has reached a point where production of the fuels is almost commercially possible. But so long as it is not yet feasible, private industry cannot be expected to take over as the appropriations committee suggested in its report, he said.

He also argued in favor of continued

—*Continued on page 51*

Tidelands Bill Comes Up for Vote Tuesday

An agreement to vote tomorrow on passage of the tidelands measure, S. J. Res. 13, was reached in the senate last week. The agreement ended a three-week filibuster waged by a strong group of opponents to turning title to the submerged coastal lands over to the states.

Several test votes, which came shortly before and after the agreement was reached, indicated that the measure will pass the senate by a substantial majority. Because it differs in several respects with similar legislation passed by the house, the measure will have to go to conference, unless the house leadership decides to avoid any further delay and accepts the senate bill.

Three-Mile Title to States

Outgrowth of the decisions of the Supreme Court of the United States several years ago that the federal government had "paramount rights" to sea lands bordering the coastal states, the measure seeks to end the controversy that followed these decisions by giving the states title to all submerged lands extending a distance of three miles seaward from the coastline. In the case of Texas and the west coast of Florida, the distance is ten and a half miles in recognition of their historical boundaries when they entered the union. The continental shelf is reserved to the federal government.

Two efforts last week to write substantial amendments into the bill failed

—*Continued on page 69*

Standard Oil Bid High For Farben Unit Stock

Standard Oil Development Company, a subsidiary of Standard Oil Company (New Jersey), with an offer of $1,200,000, was the highest bidder for the government-held 50 percent ownership in Jasco, Inc., it was revealed April 30 by the Office of Alien Property following the opening of sealed bids at its New York offices. Standard Oil already owns five shares of Jasco stock, constituting 50 percent ownership. The company, formerly a part of the I. G. Farben empire, was seized by the government during World War I. OAP emphasized that the high bid by Standard Oil does not constitute acceptance by the government. Final acceptance of the bid, the agency said, is being held up pending a review by the Attorney General, which is expected within ten days of the bid opening.

Davison Chemical Elects McCloskey Vice-President

Davison Chemical Corporation, Baltimore, Md., has elected William B. McCloskey, controller since 1946, a vice-president of the company. Frank J. Griffin has been elected controller to succeed Mr. McCloskey, while Frank Z. Oles has been made assistant controller.

Mr. McCloskey joined Davison in 1930 after being associated with the National Fertilizer Association from 1927 to 1930. Mr. Griffin joined the concern in 1946 as assistant controller. Mr. Oles has been with Davison since 1935, serving as staff accountant and director of budgets and reports.

Allied Chemical Promotions To Miller, Sheridan, Linton

Allied Chemical & Dye Corporation, New York, has announced the election of Glen B. Miller to its board of directors and the appointments of James Sheridan as treasurer and Frank L. Linton as comptroller.

Mr. Miller has been a vice-president and member of the executive committee since 1950, and has also held the title of comptroller. Mr. Sheridan has been assistant treasurer since 1950. Mr. Linton has been with the company's accounting department since 1946.

Ammonia Plant for Shell Reported Near Completion

A new ammonia plant for the Shell Chemical Corporation at Ventura, Calif., is now well on its way to completion, according to the M. W. Kellogg Company, construction engineers. When completed late this summer, the new plant will include several unique features, among which is the synthesis-gas reformer which operates at higher than customary pressures. Design capacity of the plant is over 150 tons of anhydrous ammonia daily.

Union Carbide Vice-Presidents

Thomas D. Cartledge (left), president of Linde Air Products Company, and Howard S. Bunn, president of Bakelite Company, have been elected vice-presidents of Union Carbide & Carbon Corporation, New York. Both Linde and Bakelite are divisions of Union Carbide. Mr. Cartledge, who has been president of Linde since 1952, is also president and a director of Dominion Oxygen Company, Ltd., (Canada). He joined Linde after World War I, was elected vice-president in 1940 and became senior vice-president, director and a member of the executive committee four years later. Mr. Bunn, who became president of Bakelite last year, is also president and a director of Bakelite Company (Canada), Ltd., a director of Bakelite, Ltd., (England) and vice-president and a director of Canadian Resins & Chemicals, Ltd. He entered the Union Carbide organization in 1922, was named manager of the plastics division of Carbide & Carbon Chemicals Company, another division of the parent concern, in 1938, vice-president of Carbide's plastics division in 1944 and vice-president in charge of sales of Bakelite's thermoplastics division in the same year.

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Price Index Declines Again

The overall OPD index dropped 0.04 point last week. Although there were a considerable number of price changes, fluctuations in the various market indexes were not large. The only exception was the agricultural chemicals market which had a large decline in its index. Price changes in this market included dried blood and tankage as increases and bone meal and nitrogenous process tankage as decreases.

Price activity in the heavy chemicals market was lively. Among some of the items undergoing price boosts in this market were phosphoric acid, lead, soda ash, various tin salts, potassium stannate and sodium phosphate. Copper, copper sulphate and tin oxide were lower. The essential oils market was somewhat stronger with increases in anise, apricot kernel, lime and orange oils. Price advances in the botanicals market included anise, cloves and tumeric. Dutch caraway, cardamom, cassia and black pepper were among items cut. Egg albumen and yolk in addition to potato starch were upped in the textile leather chemicals market.

The petroleum derivatives market was off slightly and featured reductions in No. 2 fuel oil and kerosene in the N. Y. harbor area. As usual, there was a large number of price changes in the oils, fats and waxes market. Soybean meal and carnauba wax were upped in price. Among declines were copra, peanut meal, beeswax and tung, castor, oleo, oiticica, coconut and cottonseed oils. Adipic, hydroxyacetic and NF grade phosphoric acids were raised in the drugs and fine chemicals market. Refined and deodorized and USP grades of castor oils were reduced. Lead pigments were higher in the protective coatings materials market, reflecting the rise in lead metal. The coal chemicals market was without change.

Except for twenty-seven changes in botanicals listed on page 71, price changes during the past week were as follows (the numbers in parentheses after changes indicate the pages on which the market reports will be found):—

Prices Advanced

Acid adipic, 7c. per lb. (57).
Hydroxyacetic, tech., 1c. per lb. (57).
Phosphoric, tankcars, 20c. per 100 lbs. (40).
NF, 85%, ½c. per lb. (57).
Blood, dried, Chicago, 25c. per unit of ammonia (47).
Egg albumen, flake, 8c. per lb. (55).
Yolk, 2c. per lb.
Lead metal, ½c. per lb. (40).
Monosilicate, 0.48c. per lb. (76).
Red, 95%, 97%, 98%, ½c. per lb. (76).
Litharge, ½c. per lb. (76).
Oil, anise, USP, 5c. per lb. (73).
Apricot kernel, 11c. per lb. (73).
Lime, expressed, West Indian, 50c. per lb. (73).
Orange, California, 10c. per lb. (73).
Florida, 5c. per lb.
Peanut, crude, 1c. per lb. (84).
ref., 1c. per lb.
Rosemary, Spanish, USP, 10c. per lb. (73).
Orange mineral, ½c. per lb. (76).
Pentaerythritol, tech., 1c. per lb. (57).
Potassium stannate, 4c. per lb. (40).
Potato starch, Maine, 3/20c. per lb. (55).
Soda ash, 15c. per 100 lbs. (40).
Sodium phosphate, dibasic, 20c. per 100 lbs. (40).
Duohydrate, 40c. per 100 lbs.
Monobasic, 40c. per 100 lbs.
Pyro, acid, 75c. per 100 lbs.
Ferric, 1c. per lb.
Tetrabasic, 40c. per 100 lbs.
Tripoly, 40c. per 100 lbs.
Sodium stannate, 4c. per lb. (40).
Sulphite, ½c. per lb.
Soybean meal, $1.50 per ton (84).
Tankage, Chicago, 25c. per unit of ammonia (47).
Tin chloride, stannous, anhy., 7c. per lb. (40).
Sulphate, stannous, 6c. per lb.
Tetrachloride, 5c. per lb.
Wax, carnauba, chalky, 3c. per lb. (84).
N. C., crude, No. 2, 2c. per lb. (84).
No. 3, 2c. per lb.
ref., 3c. per lb.

Prices Reduced

Bone meal, steamed, domestic, $5 per ton (47).
Copper metal, ½c. per lb. (40).
Sulphate, tribasic, $4.40 per 100 lbs.
Copra, $27.50 per ton (84).
Fuel oil, furnace, N. Y. Harbor, No. 2, ½c. per gal. (50).
Kerosene, N. Y. Harbor, 43-44 s.g., w.w., ½c. per gal. (50).
Lard, ¼c. per lb. (84).
Molasses, blackstrap, feed grade, New Orleans, ½c. per gal. (57).
Nitrogenous process tankage, 80c. per unit of ammonia (47).
Oil, castor, Braz., No. 1, ¼c. per lb. (84).
dom., No. 3, 1c. per lb.
dehyd., bodied, 1c. per lb.
unbodied, ½c. per lb.
refined and deodorized, 1c. per lb. (57).
USP, 1c. per lb. (57).
Coconut, crude, 1½c. per lb. (84).
ref., 1c. to 2c. per lb.
Corn foots, 95%, ¼c. per lb. (84).
oil, crude, ¼c. per lb.
ref., ¼c. per lb.
Cottonseed, crude, ½c. per lb. (84).
ref., ½c. per lb.
Oiticica, ¼c. per lb. (84).
Oleo, ¼c. per lb. (84).
Palm kernel, ½c. per lb. (84).
Soybean foots, 95%, ⅜c. per lb. (84).
50%, ½c. per lb.
oil, crude, ½c. per lb.
ref., ½c. per lb.
Tung, ¼c. per lb. (84).
Peanut meal, old proc., $1.50 per ton (84).
Tin oxide, 8c. per lb. (40).
Wax, bees, Afr., ½c. per lb. (84).

OPD Price Index

THE OIL, PAINT AND DRUG REPORTER'S relative record of prices of chemicals and related materials is currently as follows:—

(100=1949 average)

May 1, 1953	April 24, 1953	May 2, 1952
106.60	106.64	109.67

RFC Termination Plan Hit by Outgoing Chief

Retiring administrator Harry A. McDonald of the Reconstruction Finance Corporation last week expressed opposition to plans of the Eisenhower administration to terminate the activities of RFC and transfer certain of its functions to other agencies. He said that the agency should be continued as an essential source of credit for small business and small communities.

During the fourteen months that Mr. McDonald served as its head, it was pointed out, RFC accomplished a number of objectives, a number of them being:—

Tin—From a shortage of tin in February, 1952, requiring strict controls over use and with the government the sole importer, today the adequacy of industrial supplies is no longer uncertain, the stockpile is good, and the market price has fallen materially.

Synthetic rubber—Production has continued with substantial success in quantity and quality of output. From March, 1952, to May, 1953, a total of 845,373 long tons were produced and operation is currently running at a rate in excess of 1,000,000 long tons for a similar period.

Abaca plantations—The five plantations in Central America have continued in operation and research has made possible a considerable increase in fiber yield per acre.

Profits—After paying all expenses, RFC has paid into the Treasury approximately $173,000,000 during Mr. McDonald's administration, from lending, liquidation, and production activities.

Mr. McDonald noted that the vast majority of the loans made by RFC are for less than $100,000 each and go to small business enterprises. Ninety percent of the outstanding loans are under $100,000 each. Mr. McDonald added:—

"No one believes more strongly than I in the essentiality of private competitive business to a democratic country such as ours. My many years in private business plus six and one-half years of executive experience in the government have enabled me to see, at first hand, the necessity for a non-competing cooperative relationship between government and all private businesses. The government should operate only in those activities which can

—Continued on page 37

Isocyanates Plant Projected By Monsanto Chemical Co.

Plans for construction by Monsanto Chemical Company of multi-million dollar facilities for the production of isocyanates were announced in St. Louis, Mo., last week by vice-president J. L. Christian, general manager of the company's phosphate division.

Mr. Christian pointed out that the steadily increasing number of marketable products in which isocyanates are an essential component, was a major influence in the decision to construct these new plant facilities. Promising among the uses are the new synthetic rubbers and isocyanate based foamed-in-place plastics.

The new plant will expand the present production capacity of Monsanto for isocyanates. It will follow nearly ten years of research, pilot plant investigation, and sales development effort, involving the solution of chemical and engineering problems unique to isocyanates manufacture. Location has not been announced.

Nat'l Distillers Vice-Pres.

Alexander O. Cushny, comptroller of National Distillers Products Corporation, New York, for nineteen years, has been elected vice-president in charge of finance. Mark J. Downey, associated with the concern since 1934, will succeed Mr. Cushny as comptroller. James P. Whelan, with the company since 1924, has been named assistant secretary.

Mathieson Chemical Plans To Buy Powell Company

Mathieson Chemical Corporation, Baltimore, Md., has completed negotiations leading to the acquisition of John Powell & Co., its subsidiaries and associated companies, Thomas S. Nichols, president of Mathieson, and H. Alvin Smith, president and treasurer of Powell, revealed in a joint announcement last week.

Powell, founded in 1923, has been a leader in the development and formulation of insecticides, herbicides and rodenticides. Four basic grinding and mixing plants to service pesticide formulators are operated by the firm at Brooklyn, N. Y.; Atlanta, Ga.; East Omaha, Neb., and Elkton, Md. Powell has sales offices throughout the United States and maintains a technical service laboratory at Port Jefferson, L. I.

Mathieson for the past several years has been manufacturing basic chemicals for insecticide and herbicide use. The integration of Powell's distribution system into Mathieson's agricultural chemicals business will make it possible to further expand Mathieson's operations, the announcement said. Management of Powell will continue as part of the Mathieson organization.

Allied Names Roy Landis Sales Manager of Organics

Nitrogen Division, Allied Chemical & Dye Corporation, New York, today announced the appointment of Roy H. Landis as sales manager of organic chemicals. Mr. Landis moves into this newly-created post from the division's market development department. Prior to joining this department last November, he was acting manager of the synthetic organic chemicals department of American Cyanamid Company, New York.

Hercules Powder Elects Albert Forster President

Hercules Powder Company, Wilmington, Del., last week elected Albert E. Forster president and chairman of the executive committee. He succeeds Charles A. Higgins, president and chairman of the board, who, in line with the company's retirement policy, resigned as president, a post he had held since 1939. Mr. Higgins also resigned the chairmanship of Hercules executive committee, but will continue as board chairman, a position to which he was elected in 1944.

Mr. Forster has served as vice-president and a member of the executive committee

Albert E. Forster

since 1951. He was elected a director of the company in 1940. He joined Hercules in 1925 as a technical service man in the company's San Francisco office. Leaving the concern in 1930 for engineering practice, Mr. Forster rejoined Hercules in 1934 as a member of the explosives department.

The new Hercules president became successively assistant superintendent of the Carthage, Mo., explosives plant, assistant manager of the Birmingham, Ala., sales office and manager of the service division in Wilmington. In 1940 he was named assistant manager of the explosives department. Later that year, Mr. Forster was shifted to the naval stores department as assistant manager, a month

—Continued on page 37

Heyden Now Offering New Solid Form of Formaldehyde

Heyden Chemical Corporation, New York, has developed a new solid form of formaldehyde with less than one-tenth of 1 percent water content, Simon Askin, president, announced last week. Called "Superfyde," the new product is now being turned out in commercial quantities by a special process.

According to Mr. Askin, "Superfyde" has special advantages for processes in the plastics, textile, rubber and other industries which call for formaldehyde, but where the presence of water inhibits or prevents reaction. The material, described as being somewhat similar to paraformaldehyde in chemical structure but with a higher molecular weight and higher melting point, is suggested by Heyden for a variety of uses in applications where paraformaldehyde and other types of formaldehyde are not well adapted. "Superfyde" is of special interest as a source of dry formaldehyde in the manufacture of chemical intermediates and resins, Mr. Askin said.

US to Have Trademark Adviser at WHO Parley

John Horan, of Merck & Co., Rahway, N. J., will accompany the American delegation to the World Health Assembly meeting at Geneva, May 5, as an unofficial observer to give advice on trademark matters. He will represent the American Drug Manufacturers Association and the American Pharmaceutical Manufacturers Association, who jointly operate the drug industry's Combined Trademark Bureau.

The matter of trademarks in their relations to the work of the World Health Organization's expert subcommittee on international non-proprietary Names is one of the topics on the agenda of the assembly to be taken up at the meeting. The American delegation has been urged to press for some changes in the present working arrangements of this group so that there will be less interference with the validity and rights of American trademark owners.

Patent Royalty Policy Needs Revision: NAM

Congress was urged last week by the National Association of Manufacturers to permit the so-called royalty adjustment act of 1942 to expire July 1 because the law is tending to "destroy incentive." The government, it was also requested, should revise its whole policy on patent royalties so as to encourage, rather than discourage, invention.

The suggestions were made at a hearing before the subcommittee of the house judiciary committee considering a bill to extend the termination date of the royalty adjustment act. William R. Ballard, adviser to the NAM's committee on patents, explained that the government is heavily dependent upon the inventions of the citizens to keep it ahead in the development of defense material. Its policy should be to encourage such invention by providing real incentive to investors through royalties.

Mr. Ballard explained that "the act permits a government executive to 'order' a royalty payment eliminated or reduced to suit his own idea of what is reasonable, and requires the suppliers' price to the government to be correspondingly reduced.

"It is our view," he said, "that government will best serve the cause of national defense and the public by dropping its existing attitude on royalties and adopting instead a practice designed to provide incentive for invention in the defense field." Mr. Ballard made these four recommendations:—

"1. The royalty adjustment act of 1942 be permitted to expire on July 1 of this year.

"2. The government should revise its policy toward royalties and patents relating to defense procurement so as to encourage, rather than discourage, invention in this field.

"3. The government should stop spending time and money trying to invalidate patents which it grants.

"4. The government, in the absence of fraud, should accept prevailing commercial royalty rates or negotiate a proper royalty which will provide incentive for invention in the field of defense."

Merck-Sharp & Dohme Merger Plan Approved

Stockholders of Merck & Co., Rahway, N. J., and Sharp & Dohme, Inc., Philadelphia, at separate meetings April 30 approved the plan of merger, it was announced by George W. Merck and John S. Zinsser, chairmen of the boards of the respective companies. The name of the combined company is Merck & Co. The business of Sharp & Dohme will be conducted under its name as a division of Merck.

At the Merck meeting the affirmative vote of all classes of outstanding stock was over 86 percent; at the Sharp & Dohme meeting the comparable figure was over 82 percent. The negative vote in each case was less than 1 percent.

George W. Merck is chairman of the combined company; John S. Zinsser is vice-chaiman of the Merck board; James J. Kerrigan is president of the combined company, and William L. Dempsey is president of the Sharp & Dohme division.

Four directors of Sharp & Dohme will join the Merck board, increasing the number of Merck directors from twelve to sixteen. In addition to Mr. Zinsser and Mr. Dempsey, members from Sharp & Dohme's former board are Charles D. Dickey, vice-president of J. P. Morgan & Co., who has been a director of Sharp & Dohme since 1929, and Charles S. Garland, partner of Alex. Brown & Sons, who has been a director of Sharp & Dohme since 1940.

Chlorobromomethane Output For Fire Use Announced

Michigan Chemical Corporation, Saint Louis, Mich., has announced quantity production of chlorobromomethane for use in fire extinguishing equipment. Commonly known as CB, the material is from one and one-half to six times as effective as other liquid extinguishing materials in current use, the company said. CB is faster, less toxic, less corrosive, and has a lower freezing point (-123 degrees Fahrenheit), according to Michigan Chemical, and extinguishers using the product can be smaller and lighter in design. A waste fire attacked with CB has less tendency to flash back and there is less soot, smoke and irritating or corrosive fumes, according to the producer.

Washington Talks It Over

By Ralph L. Cherry

Secretary of Agriculture Ezra Taft Benson is firm in his belief that the laws of supply and demand must again be used in the main to guide the operations of the agricultural industry. The government should step in only when it is certain that the nation's food supply is endangered. He has been having trouble convincing congress that this is the best approach to the farm problem, however, and it is not at all certain that he will be permitted to give much effect to his program. Much depends upon the trend of farm prices over the next several months.

The clearest expose of the secretary's views on farm prices was contained in the speech he made last week before the US Chamber of Commerce. This is what the secretary said:—

"To make the most of our resources we cannot afford an agriculture that does not depend mainly on the guidance of the price mechanism to guide both production and consumption. If we let ourselves be deluded by the lure of politically or socially contrived price standards, we shall only weaken or destroy the vitality and ability of agriculture to meet the challenge of the future. In these days of very strong feelings and sentiments about the level of farm prices, it seems impossible to give enough emphasis to the importance of prices as the only workable language by which producers and consumers can understand each other and cooperate for the common good.

"The arbitrary fixing of prices by standards that look backward for political and even understandably humane reasons can be a tragic mistake if, for example, it prices the use of corn out of the market, piling it up idly in excessive amounts instead of turning it into pork, beef, milk, poultry or eggs. Consumers are telling us every minute of the day the value of these products to them, and they show it by what they pay for them. We are in grave circumstances if we must surrender to the notion that government can permanently determine by law the value of farm products, or any other products.

"Some protection of the farmer and the national food supply is essential. Such protection should not prevent production shifts toward a balanced supply in terms

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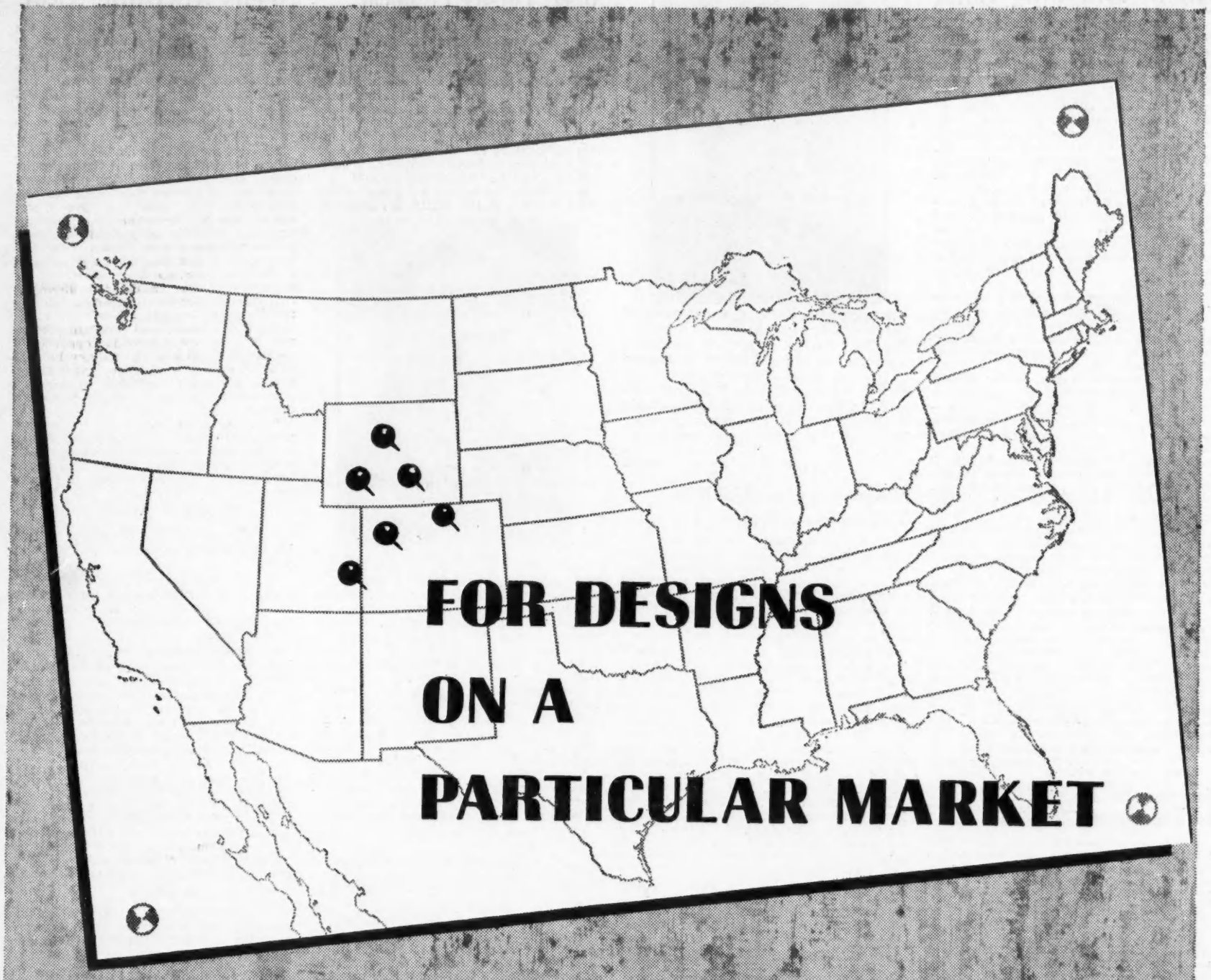

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Association Meetings

This Week

American Oil Chemists' Society, annual meeting, Roosevelt hotel, New Orleans, La., May 4-6.

Liquefied Petroleum Gas Association, national convention and trade show, Conrad Hilton hotel, Chicago, May 3-6.

National Cottonseed Products Association, Ambassador hotel, Los Angeles, May 8-12.

Society of the Chemical Industry, American section, Waldorf - Astoria hotel, New York, May 8.

Synthetic Organic Chemical Manufacturers Association, luncheon meeting, Commodore hotel, New York, May 6.

Air Pollution Control Association, annual meeting, Lord Baltimore hotel, Baltimore, Md., May 25-28.

American Association of Textile Chemists and Colorists, annual meeting, Conrad Hilton hotel, Chicago, September 17-19.

American Chemical Society, fall meeting, Conrad Hilton hotel, Chicago, September 6-11.

American Coke and Coal Chemicals Institute, annual meeting, Greenbrier hotel, White Sulphur Springs, W. Va., October 12-13.

American Institute of Chemists, annual meeting, Philadelphia, May 12-13.

American Leather Chemists Association, annual meeting, Netherland Plaza hotel, Cincinnati, Ohio, June 7-10.

American Pharmaceutical Association, Salt Lake City, Utah, August 16-22.

American Plant Food Council, annual meeting, The Homestead, Hot Springs, Va., June 11-14.

American Society of Hospital Pharmacists, annual meeting, Salt Lake City, Utah, August 16-22.

American Society for Testing Materials, annual meeting, Chalfonte-Haddon Hall, Atlantic City, N. J., June 28-July 3.

American Water Works Association, annual meeting, Grand Rapids, Mich., May 10-15.

Armed Forces Chemical Association, annual meeting, Waldorf-Astoria hotel, New York, May 20-21.

Association of Consulting Chemists and Chemical Engineers, annual meeting, Belmont Plaza hotel, New York, October 27.

Chemical Institute of Canada, annual conference, Windsor, Ont., June 4-6.

Chemical Market Research Association, annual meeting, Statler hotel, New York, June 4.

Chemical Specialties Manuracturers Association, midyear meeting, Drake hotel, Chicago, May 17-19; annual meeting, Mayflower hotel, Washington, D. C., December 6-8.

Chlorine Institute, spring meeting, Seaview Country Club, Absecon, N. J., May 11-12.

Consulting Chemists and Chemical Engineers, twenty-fifth anniversary celebration, Belmont Plaza hotel, New York, October 27.

Del-Mar-Va Peninsula Fertilizer Association, annual meeting, George Washington hotel, Ocean City, Md., June 27.

Drug, Chemical and Allied Trades section, New York Board of Trade, Astor hotel, New York, May 26.

Federal Wholesale Druggists Association, annual meeting, Greenbrier hotel, White Sulphur Springs, W. Va., September 20-23.

Federation of Paint and Varnish Production Clubs, annual meeting, Chalfonte-Haddon Hall, Atlantic City, N. J., October 29-31.

Flavoring Extract Manufacturers' Association, annual meeting, Traymore hotel, Atlantic City, N. J., May 10-13.

Forest Products Research Society, annual meeting, Memphis, Tenn., June 15-17.

Manufacturing Chemists Association, joint meeting with SOCMA, Greenbrier hotel, White Sulphur Springs, W. Va., June 11-13.

National Agricultural Chemicals Association, annual meeting, Essex and Sussex hotel, Spring Lake, N. J., September 9-11.

National Fertilizer Association, annual meeting, Greenbrier hotel, White Sulphur Springs, W. Va., June 15-17.

National Foreign Trade Council, annual meeting, Waldorf-Astoria hotel, New York, November 16-18

National Materials Handling Exposition, Convention Hall, Philadelphia, May 18-22.

National Paint, Varnish and Lacquer Association, annual meeting, Chalfonte-Haddon Hall, Atlantic City, N. J., October 26-28.

National Pest Control Association, annual meeting, Nicollet hotel, Minneapolis, Minn., October 19-21.

National Petroleum Association, annual meeting, Traymore hotel, Atlantic City, N. J., September 16-18.

Packaging Institute, annual forum, Statler hotel, New York, October 12-14.

Packaging Machinery Manufacturers Institute, annual meeting, Skytop Lodge, Cresco, Pa., September 20-23.

Paint Industries Show, Haddon Hall, Atlantic City, N. J., October 27-30.

Proprietary Association, annual meeting, Greenbrier hotel, White Sulphur Springs, W. Va., June 8-10.

Salesmen's Association of the American Chemical Industry, chemical sales clinic, Commodore hotel, New York, October 19-20.

Scientific Apparatus Makers Association, annual meeting, Greenbrier hotel, White Sulphur Springs, W. Va., May 24-28.

Society of Cosmetic Chemists, Biltmore hotel, New York, May 15.

Society of Industrial Packaging and Materials Handling Engineers, exposition, technical short course and competition, Mechanics Hall, Boston, October 18-24.

Society of the Plastics Industry, annual meeting and conference, cruise to Bermuda, May 9-15.

Synthetic Organic Chemical Manufacturers Asciation, joint meeting with MCA, Greenbrier hotel, White Sulphur Springs, W. Va., June 11-13.

Toilet Goods Association, annual meeting, Waldorf-Astoria hotel, New York, May 12-14.

ASTM Readies Plans For Conclave in June

Two memorial lectures, several technical symposiums and the presentation of numerous technical papers will highlight the program of the fifty-sixth annual meeting of the American Society for Testing Materials, to be held June 28 through July 3 at the Chalfonte-Haddon Hall hotel, Atlantic City, N. J.

Jerome Strauss, president of the Vanadium Corporation of America, New York, will deliver the H. W. Gillett memorial lecture on June 30. His topic will be "Micrometallurgy." On July 1 Dr. Frederick D. Rossini, Silliman professor and head of the department of chemistry and director of the American Petroleum Institute research laboratory at Carnegie Institute of Technology, will deliver the twenty-seventh Edgar Marburg lecture. His topic will be "An Excursion into Petroleum Chemistry."

Dr. Rossini is recognized as an authority in the field of physical chemistry. For many years he has been a member of ASTM committee D-2 on petroleum products. In 1946 he was elected president of the Commission on Thermochemistry of the International Union of Pure and Applied Chemistry, having been nominated in 1934 as the United States member of the commission. He is the author or coauthor of approximately 150 scientific papers dealing with thermochemistry and hydrocarbons.

Strauss Heads A-10 Group

Mr. Strauss' experience in the alloy metals field includes work as a chief chemist and metallurgist, materials engineer, and chief research engineer. He has been chairman of ASTM committee A-10 on iron-chromium, iron-chromium-nickel and related alloys since its organization in 1929, and serves on many other technical committees. He represents ASTM on the iron alloys research committee of the Engineering Foundation. In 1940 he was elected a member of the board of directors of the American Standards Association, and from 1940 to 1942 served as a member of the executive committee of the ASTM.

Throughout the convention there will be

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Leather Chemists Detail Two Symposia for Annual Meeting

The American Leather Chemists Association has announced details on two symposia that will be conducted during its fiftieth anniversary meeting, to be held June 7 to 10 at the Netherland Plaza hotel, Cincinnati, Ohio.

At a practical symposium on leather making, to be held the morning of June 9, E. Thorstensen, S. B. Foot Tanning Company, Red Wing, Minn., will preside. Following are the papers to be presented:—

"The American Leather Chemists Association," Dr. H. G. Turley, Rohm & Haas Company, Philadelphia.

"Sole Leather,' L. M. Whitmore, Leas & McVitty, Inc., Salem, Va.

"Chrome Shoe Leather," D. B. Eisendrath, B. D. Eisendrath Tanning Company, Racine, Wis.

"The Development of Syntans in US," Dr. T. Blackadder and Dr' I. C. Sommerville, Rohm & Haas.

"Dyeing," R. Leach, Calco Chemical Division, American Cyanamid Company, Bound Brook, N. J.

"Leather Oils," T. A. Faust, Yocum Faust, Ltd., London, Ont.

"Tanning Machinery," T. C. Hollander, United Shoe Machinery Corporation, Boston.

A chemical symposium on leather making will be held the afternoon of the ninth, with Dr. W. Windus, John R. Evans & Co., Camden, N. J., presiding. Following are the papers to be delivered:—

"Collagen," Dr. J. H. Highberger, United Shoe Machinery Corporation, Beverly, Mass.

"Structure of Vegetable Tans," Dr. F. O'Flaherty, Tanners' Council Research Laboratory, Cincinnati.

"Chrome Tanning," Dr. E. R. Theis, Lehigh University, Bethlehem, Pa.

"Leather Dyestuffs." Dr. C. K. Black and C. H. Geister, E. I. duPont de Nemours & Co., Wilmington, Del.

"Oils," Dominic Meo, Salem Oil & Grease Company, Salem, Mass.

Three awards will be given at the association's 1953 annual meeting—the Moffatt medal, sponsored by the Tanners' Council Foundation, the Alsop medal, sponsored by River Plate Corporation, and the Winheim award, sponsored by the American Leather Chemists Association.

SAMA Annual Meeting Set

The Scientific Apparatus Makers Association will hold its thirty-fifth annual meeting May 24 to 28 at the Greenbrier hotel, White Sulphur Springs, W. Va.

Westvaco Engineering Head

Robert J. DeLargely, former general assistant to the operating vice-president, has been named director of engineering by Westvaco Chemical Division, Food Machinery & Chemical Corporation, New York. Mr. DeLargely, prior to joining Westvaco in 1951, was assistant general manager of Grove Regulator Company, Oakland, Calif., and former superintendent of Shell Chemical Corporation's ammonia plant in Pittsburg, Calif.

Standards Bureau Evaluation Committee Holds 1st Meeting

The evaluation committee for the National Bureau of Standards held its first meeting with Secretary of Commerce Sinclair Weeks April 29. The committee, which is headed by Dr. M. J. Kelly, president of Bell Telephone Laboratories, New York, is an outgrowth of requests by Secretary Weeks early last month to executive officials of national scientific and technological societies to name members representing their respective societies.

Purpose of the committee, according to Mr. Weeks' announcement of last month, is "to evaluate the present functions and operations of the National Bureau of Standards in relation to the present national needs." Dr. Kelly was named by Dr. Detlev W. Bronk, president of Johns Hopkins University and president of the National Academy of Sciences, to represent the latter organization. John Green, director of the Office of Technical Services, Department of Commerce, has been named executive secretary by Mr. Weeks. Other members of the evaluation committee are:—

Dr. Lee A. DuBridge, president of California Institute of Technology, Pasadena, Calif., representing the American Institute of Physics; Dr. Guy Suits, vice-president of General Electric Company, Schenectady, N. Y., representing the American Institute of Electrical Engineers; Dr. William L. Everitt, dean of engineering, University of Illinois, Urbana, Ill., representing the Institute of Radio Engineers and Dean Kenneth S. Pitzer, University of California, Berkeley, Calif., representing the American Chemical Society.

Also, Dr. Abel Wolman, Johns Hopkins University, Baltimore, Md., representing the American Society of Civil Engineers; Dr. Clyde Williams, director of Battelle Memorial Institute, Columbus, Ohio, representing the American Institute of Mining and Metallurgical Engineers; Dr. James W. Parker, Detroit Edison Company, Detroit, Mich., representing the American Society of Mechanical Engineers and Prof. J. Barkley Rosser, Cornell University, Ithaca, N. Y., representing the Policy Committee on Mathematics.

SOCMA to Hear Brayman, Of duPont, Speak Wednesday

The Synthetic Organic Chemical Manufacturers Association will meet Wednesday in the Commodore hotel, New York, to hear Harold Brayman, director of public relations for E. I. duPont de Nemours & Co., Wilmington, Del., discuss "Business and the Public." Cocktails will be served at noon, followed by lunch a half hour later.

Consulting Chemists Mark 25th Anniversary Oct. 27

Dr. Foster Dee Snell, president of the Association of Consulting Chemists and Chemical Engineers, has announced that preparations are under way for the twenty-fifth anniversary celebration of the association, to be held October 27 at the Belmont Plaza hotel, New York. A banquet and entertainment program are planned.

Zinc Institute Elects Havey '53 President

Marshall L. Havey, assistant to the president of the New Jersey Zinc Company, New York, was elected president of the American Zinc Institute at that organization's thirty-fifth annual meeting in St. Louis, Mo., last week. Mr. Havey succeeds Russel B. Caples.

Elected vice-presidents were:—Warren H. Leverett, National Zinc Company, New York; George W. Potter, Potter-Sims Mines, Inc., Joplin, Mo., and Frank A. Wardlaw, jr., International Smelting & Refining Company, Salt Lake City, Utah. Erle V. Daveler, American Zinc, Lead & Smelting Company, New York, was re-elected treasurer, and Ernest V. Gent was chosen to cortinue as executive vice-president and secretary.

Chosen to the board of directors were:—K. C. Brownell, American Smelting & Refining Company, New York; E. R. Dondorf, National Lead Company, New York; R. E. Dwyer, Anaconda Copper Mining Company, New York; Andrew Fletcher, St. Joseph Lead Company, New York; Elmer Isern, Eagle-Picher Company, Miami, Okla.; G. H. LeFevre, U. S. Smelting & Refining Company, New York; Mr. Leverett; E. H. Snyder, Combined Metals Reduction Company, Salt Lake City, Utah; S. D. Strauss, American Smelting & Refining Company, New York, and Jean Vuillequez, American Metal Company, Ltd., New York.

Zinc Tariff Measure Scored

Mr. Strauss told the institute that the zinc tariff measure currently before congress, which is featured by a sliding-scale provision on import duties, will not ease the current slump in the zinc-producing industry. He declared that the remedy was worse than the ailment.

A protective tariff on zinc imports will compel foreign producers to withhold output rather than pay high duties, Mr. Strauss pointed out, adding that such duties would force a rise in the domestic zinc price—to at least 14½ cents a pound and possibly above 15½ cents.

If the United States imports zinc, he asserted, then it must be recognized that "we cannot completely insulate ourselves from the world market by a tariff device," since the price outside the United States will affect the zinc price within the country, tariff or no tariff. Mr. Strauss attributed difficulties in the zinc industry today to inaccurate forecasts of future civilian and military demand. They are not due, he said, to expansion by the industry beyond what it was asked to do.

US Zinc Mine Production

Mr. Caples presented a paper surveying zinc mine production in the United States. "In spite of the situation facing our mines," Mr. Caples said, "zinc metal pro-

—Continued on page 44

NACA Celebrates Birthday At Spring Lake Sept. 9-11

The National Agricultural Chemicals Association will observe its twentieth anniversary during its annual meeting at Spring Lake, N. J., September 9 to 11, according to Lea S. Hitchner, executive secretary of the association. Headquarters will be at the Essex and Sussex hotels.

"Plans now are that accommodations for the members will be made at both the Essex and Sussex, and the Monmouth hotels," Mr. Hitchner stated, "because our membership has grown to the point where the Essex and Sussex can no longer accommodate all of the representatives." Mr. Hitchner reported that over 500 persons attended the annual meeting last year and an even larger number are expected for this twentieth anniversary meeting.

As a special feature of the program a panel of seven ex-presidents of the association will be asked to discuss the industry's status and to compare the present-day marketing activities, production and technical problems of the industry with those of former years.

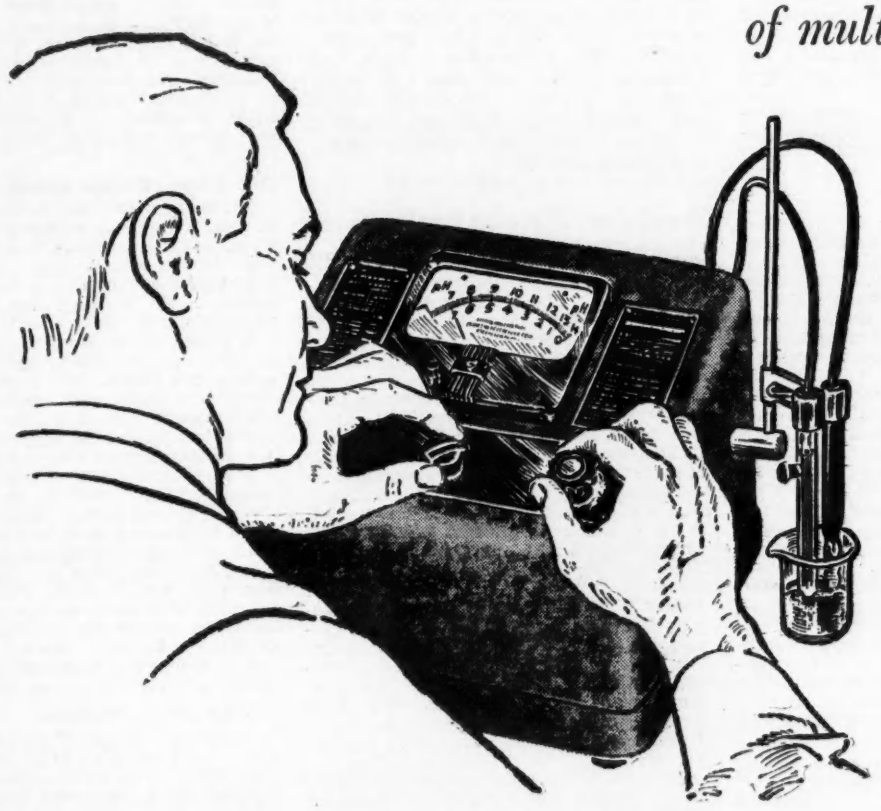
Tall Oil Ass'n Reelects Scharwachter President

The Tall Oil Association has announced the reelection of A. Scharwachter, Arizona Chemical Company, New York, to the presidency.

Artcher E. Griffin, sales manager of the chemical division, Camp Manufacturing Company, Franklin, Va., has been elected vice-president. Dernell Every has been chosen again to serve as secretary-treasurer and T. K. Heston continues as his assistant. It was also reported that Crossett Chemical Company, Crossett, Ark., has been admitted to membership.

Advantages of Controlled *p*H in Sodium Ascorbate Merck

A subject of special interest to manufacturers of multivitamin tablets and capsules



Problems of *p*H are simplified when you prepare multivitamin formulations with SODIUM ASCORBATE, MERCK. Because the *p*H of this product is controlled within 0.3 unit, the *p*H of consecutive multivitamin batches can be kept uniform. Thus, work tickets can be standardized without bothersome individual *p*H adjustments for each batch.

There are other important reasons why Sodium Ascorbate is the preferred form of Vitamin C for many multivitamin tablets and capsules. The higher *p*H of this salt, as compared with Ascorbic Acid, favors stability of Calcium Pantothenate, so that less overage of this ingredient is required. Moreover, with Sodium Ascorbate there is no need for additional alkalizing materials; thus the size of the tablet or capsule is reduced.

Note that at these somewhat higher *p*H levels, you can take advantage of the greater stability of Thiamine Mononitrate.

Sodium Ascorbate Merck

Call Merck for Vitamins:

Vitamin A Palmitate
Solution of Vitamin A Palmitate in Corn Oil
Crystalline Vitamin A Acetate
Thiamine Hydrochloride U.S.P.
Thiamine Hydrochloride U.S.P. for Ampuls
Thiamine Mononitrate U.S.P.
Riboflavin U.S.P.
Calcium Pantothenate Dextrorotatory
Folic Acid U.S.P.
Niacin U.S.P.
Niacinamide U.S.P.
Pyridoxine Hydrochloride
Crystalline Vitamin B_{12} U.S.P.
Triturations of Crystalline Vitamin B_{12}
Vitamin B_{12} Solids
Ascorbic Acid U.S.P.
Alpha Tocopherol
Alpha Tocopheryl Acetate
Menadione U.S.P.
Vitamin K_1
Choline Chloride

Research and Production for the Nation's Health

MERCK & CO., INC.
Manufacturing Chemists
RAHWAY, NEW JERSEY

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Current Market Quotations

Chemicals and Related Materials

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Unless otherwise indicated, listings are first-hand quotations prevailing, according to information and belief, May 1 on large lots, f.o.b. New York, with the lowest in the left-hand column and the highest in the right-hand column. The listings do not represent bid and asked prices nor a range over the week. Differences between high and low may be accounted for by differences in quantity, quality, locality, or individual suppliers' views.

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A

Acacia (see Gum arabic).
Acenaphthene below 92.5 C., m.p., dms. works lb. .40 - —
over 92.5 C., m.p., bbls., dms., works lb. .41 - .50
Acetaldehyde, 99% dms., c.l., frt. equald lb. .1250- .1435
l.c.l. frt. equald lb. .1350- .1535
tanks, frt. equald lb. .1050- .1300
Acetaldol (see Aldol)
Acetanilide tech., bbls., c.l., dlvd. lb. .26½- —
l.c.l., ton lots lb. .27½- —
smaller lots lb. .30½- —
USP, bbls., 2,000-lb. lots lb. .80 - —
smaller lots lb. .81 - .86
Acetic anhydride, dms., c.l., dlvd. E. lb. .15½- —
l.c.l., dlvd. E lb. .17 - —
tanks, dlvd. E lb. .14 - —
Acetoacetanilide, fib. dms., e.l. dlvd. lb. .73 - —
l.c.l., dlvd lb. .74 - —
Acetoacetorthochloroanilide, fib. dms., c.l., dlvd. lb. 1.22 - —
l.c.l., dlvd. lb. 1.23 - —
Acetoacetorthotoluidide, fib. dms., c.l., dlvd. lb. .78 - —
l.c.l., dlvd lb. .79 - —
Acetone, CP dms., c.l., dlvd. lb. .10¼- .11¼
l.c.l., dlvd. lb. .11 - .12½
tanks, dlvd. lb. .08½- .10
Methyl (see MD
Acetonitrile, dms., c.l., works lb. .45 - —
l.c.l., works lb. .47 - —
Acetophenetidin, USP, bbls., works, frt. equald lb. 1.15 - 1.17
Acetophenone, cns. dms lb. 1.35 - 1.85
tech., dms., l.c.l., works lb. .75 - —
Acetyl (N) para-aminophenol, dms., frt. adjusted lb. 1.75 - 1.85
Acetyltributyl citrate, tech., dms., c.l. lb. .37½- —
l.c.l lb. .38½- —
tanks lb. .36 - —
Acetyltriethyl citrate, tech., dms., c.l lb. .37½- —
l.c.l. lb. .38½- —
tanks lb. .36 - —
Acid, abietic, com'l, dms., c.l., works lb. .12 - —
l.c.l., works lb. .1390- —
cryst., dms., c.l., works lb. .06½- —
l.c.l., works lb. .07 - .07½
Acetic, com'l or redist., 28%, bbls. 100 lbs. 5.50 - —
56% bbls 100 lbs. 9.65 - —
70% bbls 100 lbs. 11.70 - —
80% bbls 100 lbs. 12.45 - —
glacial, synthetic, CP, dms., works 100 lbs. 15.00 -16.00
USP chys, inclusive works. 100 lbs. 24.00 -25.00
tech., dms., c.l., works 100 lbs. 10.50 -12.50
l.c.l. works 100 lbs. 11.00 -13.50
tanks, works frt. equald 100 lbs. 9.00 -11.50
USP, dms, works 100 lbs. 13.50 -14.50
Acetic anhydride (see Acetic anhydride above).
Acetylsalicylic, USP special, bbls., makers, primary distrib., point of ship't, 1000-lb. lots lb. .60 - —
standard, fine, cryst., gran., (30-40 mesh) powd. (80 mesh), bbls. same basis, lb. .53 - —

Freight equald, ship't identical quantity over standard routes, from N. Y., Phila., Midland, Mich. Chicago and St. Louis.

Adipic, fib. dms., works lb. .37 - .37½
Aminoacetic NF bbls., frt. adjusted lb 1.50 1.75
Anthranilic, resub. bbls lb 2.10 - —
tech., bbls., frt. equald lb 1.10 - —
Arsenous, tech (see Arsenic, white).
USP (see Arsenic trioxide).
Ascorbic USP dms., 25-50 kilo lots. kilo. 21.00 - —
10-kilo lots kilo. 21.35 - —
5-kilo lots kilo. 21.75 - —
bots., 1-kilo lots kilo. 22.00 - —
500-gram lots kilo. 22.50 - —
Battery, chys, c.l., works, E 100 lbs. 2.40 —
l.c.l. works, E 100 lbs. 2.80 3.20
Benzoic, tech., bbls., dms., 100-lb. lots or more lb. .425 - .450
USP, bbls., dms., 100-lb. lots or more lb. .525 - .540
Betahydroxynaphthole (see Acid, betaoxynaphthoic).
Betaoxynaphthoic, bbls., works lb. 1.14 - —
Boric, tech. 99½% cryst., bgs., c.l., works ton. 120.75 - —
ton lots, ex whse., N. Y. or Chi ton. 166.50 - —
less ton lots same basis, ton. 171.50 - —
bbls., c.l., works ton. 145.25 - —
ton lots, ex whse., N. Y. or Chi ton. 191.00 - —
less ton lots same basis, ton. 196.00 - —
bulk c.l., works ton. 116.75 - —
gran., bgs., c.l., works ton. 95.75 - —
ton lots, ex whse., N. Y. or Chi ton. 141.50 - —
less ton lots same basis, ton. 146.50 - —
bbls., c.l., works ton. 120.25 - —
ton lots, ex whse., N. Y. or Chi ton. 166.00 - —
less ton lots, same basis, ton. 171.00 - —
bulk c.l., works ton. 91.75 - —
powd., bgs., c.l., works ton. 100.75 - —
ton lots, ex whse., N. Y. or Chi ton. 146.50 - —
less ton lots same basis, ton. 151.50 - —
bbls., c.l., works ton. 125.25 - —
ton lots, ex whse., N. Y. or Chi ton. 171.00 - —
less ton lots, same basis, ton. 176.00 - —
bulk c.l. works ton. 95.75 - —
USP $25 per ton higher.

Acid, broenner's, bbls lb. 1.47 - —
Butyric, 99%, dms., c.l., works, lb. .34 - —
l.c.l., works lb. .34½- —
tankcars, works lb. .32½- —
Cacodylic, bots lb 10.50 -13.00
Camphoric natural, dms lb. 4.00 - 4.75
synth., dms lb 4.00 4.75
Capric, dms lb. .26¼- .27½
Caprylic, dms lb. .40¾- .42
Cassella, dms., frt. alld lb. 1.44 - 1.75
Castor oil, dms lb. .35½- .36
Chicago, bbls., frt alld lb. 3.21 —
Chlorosulphonic, dms., c.l., frt. equald lb. .039 - —
l.c.l., frt. equald lb. .044 - —
tanks, frt. equald lb. .034 - —
Acid chlorophonic in stainless steel dms., ½c. per lb. higher.
Cholic, 25-100-lb. bots., fiber dms. lb. 9.25 -10.00
Chromic, 99½-99¾%, dms., c.l., works lb. .27 - .27½
l.c.l., works lb. .27½- .28½
NF (see Chromium trioxide)
Cinnamic, refd., bots lb. 2.50 - 3.50
Citric, anhyd., gran., fine gran., dms., c.l lb. .26½- —
10,000-lb. lots, 1 ship't. lb. .27 - —
smaller lots lb. .27½- —
kgs. lb. .28½- —
USP, gran., fine gran., dms., c.l lb. .24½- —
10,000-lb. lots, 1 ship't. lb. .23 - —
smaller lots lb. .25½- —
kgs. lb. .26½- —
Powdered anhydrous and USP citric acid, ½c. higher.
Cleve's, mixed, bls lb. .79 - —
Coconut oil, dist., dms lb. .27¾- .29
tankcars lb. .26 - —
double dist., dms lb. .28¾- .30
tankcars lb. .27 - —
Corn oil, dist., dms lb. .13 - —
tanks lb. .11¼- —
Cottonseed oil, dist., dms lb. .12 - .12¾
double, dist., dms lb. .12½- .13¼
Cresylic, coaltar, dom., 50% 207°C or above, ret. dms., c.l., frt. equald gal. .98 - —
l.c.l., same basis gal. 1.03 - —
non-ret. dms., c.l., same basis gal. 1.01 - —
l.c.l., same basis gal. 1.04 - —
tanks, same basis gal. .90 - —
204° to 207°C, ret dms., c.l., same basis gal. 1.03 - —
l.c.l., same basis gal. 1.08 - —
non-ret. dms., c.l., same basis gal. 1.06 - —
l.c.l., same basis gal. 1.09 - —

Acid, cresylic, coaltar, dom., 204° to 207°C., tanks, same basis gal. .93 - —
imp., 75% at 215°C. or over, dms., ex whse. gal. .75 - .90
petroleum, dom., 195° to 213°C, non-ret. dms., c.l., San Francisco and Los Angeles gal. .71 - —
l.c.l., same basis gal. .73 - .75
tanks, same basis gal. .53 - —
200° C to 222° C, tanks, Wilmington, Cal gal. .53 - .63
211° C to 236° C, non-ret. dms., c.l., San Francisco and Los Angeles gal. .63 - —
l.c.l., same basis gal. .65 - .67
tanks, same basis gal. .50 - —
220° C to 242° C, tanks, Wilmington, Cal gal. .50 - .53
245° C to 298° C, tanks, Wilmington, Cal gal. .46 - —
Crotonic, fib. dms., works lb. .45 - —
Cyanoacetic, tech., bbls lb. .90 - 1.25
Dehydrocholic, injection, fib. dms., 10 to 100-lb. lots lb. 20.00 - —
oral, fib., dms., 10 to 100-lb. lots lb. 17.00 - —
Desoxycholic, fib. dms., 10 to 100-lb. lots lb. 22.75 -23.50
Dichlorophenoxyacetic (see under 'D' 2,4-D)
Diethylbarbituric (see Barbital)
Diglycolic, bgs., works lb. .14 - —
Ethylhexoic, dms., c.l., works lb. .35 - —
l.c.l., works lb. .35½- —
tanks, works lb. .33½- —
F, crude, paste, bbls., works lb. 1.67 - —
Folic, bots, fib cns, kilo or more gram. 1.60 - —
Fumaric, tech., bbls., dms lb. .37 - .38
l.c.l., works lb. .145 - .157
90%, chys., c.l., works lb. .1475- .1525
l.c.l., works lb. .1500- .1625
Fumaric, tech, bbls, dms lb. .37 - .38
Gallic, NF VII, bbls., 1,000-lb. lots. lb. 1.80 - —
smaller lots lb 1.82 - 2.00
technical, bbls., 1,000-lb. lots lb 1.58 - —
smaller lots lb. 1.69 - 1.78
Gamma, dry, ground, bbls., frt. alld lb. 1.50 - —
paste, bbls., frt. alld lb. 1.45 - —
Gentisic, 100-lb fib dms lb 8.50 - —
Glucolic, tech., 50%, bots lb. .23½- .31½
dms lb. .14½- —
chys. lb. .17½- —
Glutamic 99½% laevo, fib. dms., 100-lb lots, works lb 2.45 2.53
25-lb. lots, works lb. 2.60 - 2.68
Glycerophosphoric, 35%, dms., works lb. 2.25 2.35

Acid, glycolic (see Acid hydroxyacetic).
H, bbls., works, basis 100% lb. .82 - —
Hydriodic, 1.50 s.g., chys lb. 2.67 - —
1.70 s.g., chys lb. 2.93 - —
Hydrobromic, medicinal, 48%, chys., dlvd. E lb. .37 .43
Hydrochloric, anhydrous (see Hydrogen chloride).
18°, chys., c.l., works 100 lbs. 2.45 - 2.80
t.c.l., dlvd. Metropolitan area 100 lbs. 3.50 4.30
tanks, works ton. 25.00 -29.00
20°, chys., c.l., works 100 lbs. 2.70 - 3.05
l.c.l., dlvd. Metropolitan area 100 lbs. 3.50 4.30
tanks, works ton. 27.00 -33.00
22°, chys., c.l., works 100 lbs. 3.30 - 3.40
l.c.l., dlvd. Metropolitan area 100 lbs. 3.50 - 4.30
tanks, works ton. 32.00 -36.00
CP, USP, consumers, chys., extra, c.l., works lb. .11¾- —
l.c.l., same basis lb. .13¼- .13¾
5 pint bottles, extra, cs., c.l., same basis lb. .16¾- —
l.c.l., same basis lb. .19¼- —
Acid, hydrochloric, CP, USP, prices to dealers 1½c. per lb less.
Hydrocyanic, cyls., frt. alld lb. .75 - .95
dilute, NF, 2%, 5-lb. bots lb. .40 - —
Hydrofluoric, anhyd., cyls., works, lb. .27½- .29
tanks, works lb. .21 - —
70%, steel dms., works lb. .18½- .22¼
Hydrofluosilicic, 30-35%, bbls., works lb. .07 - —
Hydroxyacetic, tech. 70%, bbls., non-return., Phila., basis 100% lb. .136 - —
tanks, Belle, W. Va., basis 100% lb. .095 - —
Hypophosphorous, purif., 50%, chys. lb. 1.30 - 1.32
USP, chys lb. 88 —
Isonicotinic, 100 lb. fib dms, works lb. 8.00 - —
J, bbls., works, basis 100% lb. 2.50 - 2.85
Koch, bbls, frt. alld lb. .64 - .70
L, bbls, frt alld lb. 1.25 - —
Lactic, edible, 50% bbls., 20 or more lb. .17 - .20
smaller lots lb. .17½ - .21
80%, bbls., 5 or more lb. .30 - .3640
less than 5 bbls lb. .305 - .3690
plastic grade, 50% bbls., 20 or more, works lb. .21¾- —
1 to 19 lb. .22¼ - .22¼
80% bbls., 5 or more lb. .3815- —
tech., 22%, bbls., c.l., works, 100 lbs. 6.30 —
l.c.l., works 100 lbs. 6.70 —
chys., works 100 lbs. 7.20 -12.20
44%, bbls., c.l., works 100 lbs. 11.45 -11.95
l.c.l., works 100 lbs. 11.85 -12.50
NF, 85% chys lb. .85 - .88
Laurent's, bbls lb. .60 - .87
Lauric, 90%, dms lb. 40¾- .42
60%, dms lb. .24 - .25¼
Linseed oil, dist., dms lb. .2150- .2200
water-white, dms. lb. .2450- .2500
Maleic, cryst., powd., dms lb. .37 - .38
Malic, tech., dms lb. .50 —
Mandelic, NF, dms., 1,000-lb. lots. lb. 2.35 —
smaller lots lb. 2.40 - 2.50
Metanilic, dms., works lb. .57 - .75
Methacrylic, dms., c.l., and truckloads, works lb. .76 —
less than truckload works lb 76½- .80
Molybdic, 85-92%, dms, works lb. 1.27 - —
Monochloroacetic, purified, flake, 99% dms lb. .23½- .25¼
tech., flake, 96-97% dms lb. .20 - .22
Muriatic (see Acid, hydrochloric)
Myristic, dms lb. .26¼- .27¼
Naphthenic, 220-250 acidity, dms., works lb. .14 —
tanks, works lb. .12 —
Naphthol(1)-4-sulphonic (see Acid, Neville and Winther's)
Naphthol(1)-5-sulphonic (see Acid, L).
Naphthol(1)-5-sulphonic,8-amino (see Acid, S).
Naphthol(1)-3,6-disulphonic,8-amino (see Acid, H).
Naphthol(2)-6,8-disulphonic (see Acid, Gamma).
(2)-7-Sulphonic,2-amino (see Acid, J).
Naphtholsulphonic, mixed (see Acid, Cleve's, mixed).
Naphthylamine(1)-5-sulphonic (see Acid, Laurent's)
(2)-6-sulphonic (see Acid, Broenner's).
(2)-7-sulphonic (see Acid, F).
(2)-1-sulphonic (see Acid, Tobias).
Neville and Winther's, dms., frt. alld lb. 1.05 - —
Nicotinic, USP, dms., frt. adjusted kilo. 9.00 9.30
Amide (see Nicotinamide).
Nitric 36° Be chys., c.l., works, E. 100 lbs. 5.00 —
l.c.l., works E 100 lbs. 5.30 -11.10
38° Be chys., c.l., works E 100 lbs. 5.50 —
l.c.l., works E 100 lbs. 5.80 -11.60
40° Be chys., c.l., works E 100 lbs. 6.00 6.50
l.c.l. works E 100 lbs. 6.30 -12.10
42° Be chys., c.l., works E 100 lbs. 6.50 7.00
l.c.l., works E 100 lbs. 6.80 -12.60
60% HNO_3, tanks, works, basis 100% 100 lbs. 3.25 —
95% HNO_3, tanks, works, basis 100% 100 lbs. 4.25 - —
CP, NF consumers, chys., extra c.l., works lb. .13½- —
l.c.l., same basis lb. .15 - .15¼
5 pint bottles, extra, cs., c.l., same basis lb .17¼ —
l.c.l. same basis lb. .19 - .23
Oleic, single distilled, dms lb. .12½- .13¾
tanks lb. .10¾- —
double distilled (white), dms. lb. .15 - .16¼
tanks lb. .13½- —
Oleum (see Acid, sulphuric, fuming).
Orthochlorobenzoic, fib. dms., works lb. 1.13 —
Orthocresotinic, dms. ton lots, works lb. .66 - —
smaller lots, works lb. .68 - —

Acacia—Acid, Orthocresotinic

Abbreviations

Used in OPD Market Quotations

ACS	American Chemical Society	dest-dist.	destructive-distilled	neut.	neutral
		dextro	dextrorotatory	NF.	National Formulary
alld.	allowed	dist.	distilled	No.	number
ammo.	ammonia	distr.	distributor	nom.	nominal
amorph.	amorphous	djns.	demijohns	ord.	ordinary
AMP.	American melting point	dlvd.	delivered	oz.	ounce
		dms.	drums	Pac.	Pacific
anhyd.	anhydrous	dom.	domestic	pf.	proof
a.p.a.	available phosphoric acid	E.	east	phos.	phosphate
		e.p.	end point	photo.	photographic
artif.	artificial	equald.	equalized	pkgs.	packages
ASTM.	American Society for Testing Materials	ferment.	fermentation	powd.	powdered
		ffa.	free fatty acid	precip.	precipitated
		ffc.	free from chlorine	prod.	producer
Be.	Baume			pt.	point
bbls.	barrels	fib.	fiber	pulv.	pulverized
bgs.	bags	f.o.b.	free on board	purif.	purified
bls.	bales	FPA.	free of prussic acid	redist.	redistilled
bots.	bottles			refd.	refined
b.p.	boiling point	frt.	freight	refy.	refinery
b.p.l.	bone phosphate of lime	fus.	fused	reg.	regular
		gal.	gallon	resub.	resublimed
b.r.	boiling range	gran.	granular	ret.	returnable
bxs.	boxes	grd.	ground	SD.	specially denatured
C.	centigrade	I.&a.	iron and aluminum	s.d	single distilled
cbys.	carboys			S. E.	southeast
CD.	completely denatured	i.b.p.	initial boiling point	secs.	seconds
c.i.f.	cost, insurance, freight			s.g.	specific gravity
		imp.	imported	shipt.	shipment
cks.	casks	incl.	included	solut.	solution
c.l.	car lots	indust.	industrial	s.u.	standard unit
cns.	cans	kgs.	kegs	synth.	synthetic
col.	color	lacq.	lacquer	tanks.	railroad tank-cars
coml.	commercial	lb.	pound		
conc.	concentrated	l.c.l.	less than car lots	tech.	technical
CP.	chemically pure	liq.	liquid	USP.	U. S. Pharmacopoeia
cps.	centipoises	m.a.p.	mixed anilin point		
cryst.	crystal	M c.f.	thousand cubic feet	vis.	viscosity
cs.	cases			VM&P	varnish makers & painters
ctns.	cartons	min.	minimum		
cyls.	cylinders	m.p.	melting point	W	west
dbl.	double	N.	nitrogen	whse.	warehouse
denat.	denatured	nat.	natural	w.w.	water white

A unit-ton is 2,000 pounds of 1 percent of the basic constituent or other standard of the material. The percentage figure of the basic constituent multiplied by the price figure shown gives the price of 2,000 pounds of the material.

Acid, Oxalic—Alcohol, Isopropyl

Acid, oxalic, bbls., c.l., works lb. .16½- —
10,000-lb. lots, works lb. .16¾- —
smaller lots, works lb. .17¾- —
Palm oil, double dist., dms lb. .12¼- .13
Para-aminobenzoic, tech., dms., works lb. 1.74 - 1.77
USP dms., 1,000-lb lots or more, works lb. 2.50 - —
smaller lots lb. 2.55 - 2.60
Para-aminosalicylic, dms., 1,000-lb lots or more, frt. adjusted lb. 4.00 - —
smaller lots, same basis lb. 4.05 - 4.50
Parachlorobenzoic, fib. dms., works lb. 1.59 - 1.62
Paramethylphenylcinchonic (see Neocinchophen)
Paranitrobenzoic, dms lb. .77 - —
Paratoluidinmetasulphonic, bbls., works lb .92 - 1.04
Phenylacetic, bots lb. 1.45 - 1.70
tech., dms., 1,000-lb. lots lb .90 - —
Phenylcinchoninic (see Cinchophen).
Phenylglycollic (see Acid, mandelic).
Phosphoric, food grade, 75%, cbys., c.l., works 100 lbs. 7.30 - —
l.c.l., works 100 lbs. 7.80 - 8.30
tanks, works 100 lbs. 5.10 - —
NF, 85%, cbys., c.l., works lb. .08½- —
l.c.l., works lb. .09 - .09½
Picric, NF, bbls lb. .55 - —
dms small lb 81 .87
tech., bbls lb. .32 - .33
Propionic, synthetic, pure, dras., c.l., works lb. .258 - —
l.c.l., works lb. .263 - —
tanks, works lb. .19 - .243
Pyrogallic, NF, (see Pyrogallol)
tech., bbls lb 2.76 2.99
Pyroligneous, dms., incl., l.c.l. works gal. .36 - —
whse. gal. .504 - —

Acid, ricinoleic (see Acid, castor oil, split).
S, bbls., works lb. 3.25 - —
Salicylic, crude, bgs lb. .36 - —
sublimed, tech., bbls., c.l. lb. .37 - —
l.c.l. lb. .44 - —
dyestuffs grade, bbls lb. .39 - —
USP, cryst., hhls lb. .46 - —
powder, bbls lb. .51 - —
Sebacic, purified, dms., c.l., works lb. .80 - —
l.c.l., works lb. .82 - —
Soybean oil, double dist., dms. lb. .15 - .15⅝
single, dist., dms lb. .14½- .15⅝
Stearic, double pressed, bgs lb. .11½- .12¾
single pressed, bgs lb. .11 - .12¼
triple-pressed, bgs lb. .13¾- .15
Succinic, purified, cryst., bbls., works lb .62 - .75
Sulphanilic, tech., dms., c.l., frt. alld lb. .18 - —
l.c.l., frt. alld lb. .20 - —
Sulphuric, 60° Be, cbys., c.l., works 100 lbs. 1.75 - —
l.c.l., works 100 lbs 2.05 2.85
tanks, works ton 16.30 —
66° Be, cbys., c.l. works 100 lbs. 2.00 2.10
l.c.l. works 100 lbs 2.30 3.10
tanks, works ton.20.00 - —
96-100%, tanks, works ton.21.00 - —
CP, NF, consumers cbys. extra, c.l., works, frt. equald. lb. .09¾- —
l.c.l., same basis lb. .11¼- .11¼
5 pt. bots., extra, cs., c.l., works, frt. equald lb. .13¼- —
l.c.l., same basis lb. .14¾- .20¼
fuming, 20% tanks, works ton.22.40 - —
Tallow, dist., dms lb. .10 - .11¼
hydrogenated, dms lb. .11 - .12¼

Acid, tannic, NF, fluffy, bbls., 1,000-lb. lots lb 1.39 - 1.60
smaller lots lb. 1.62 - 1.76
powder, bbls., 1,000-lb. lots lb. 1.50 - —
smaller lots lb. 1.51 - 1.69
tech. dms lb. .95 - —
Tartaric, USP, dom. 230, 250-lb., dms., c.l lb. .37 - —
10,000-lb. lots, 1 ship't lb. .37½- —
smaller lots lb. .38 - —
100-lb. dms lb. .39 - —
small dms lb. .41 - .47
imported, bgs lb. .27 - —
Thioglycolic, refined, bgs. cbys., basis 100% lb. 1.60 - 1.86
Tobias, bbls., frt. alld lb. .74 - —
Toluenesulphonic, dms., c.l., works works lb. .16 - —
l.c.l., works lb. .17½- —
Trichloroacetic, bots. lb. 2.00 - 2.50
Trichlorophenoxyacetic (see under "T" 2,4,5-T).
Tungstic, tech., kgs., works lb 4.30 - —
Undecylenic, dms. lb 1.40 - —
Aconite leaves, bls lb. .35 - .40
root, bls lb. .45 - .90
Aconitine, amorph., mild, bots oz.27.50 -32.50
cryst., potent, bots oz.78.00 -85.00
Acrolein, tech. grade, dms., c.l., works lb. .47 - —
l.c.l., works lb. .47½- —
Acrylonitrile, dms., c.l., works lb 44½- —
l.c.l. works lb 45 - .47
tanks, works lb. .43 - —
ACTH, bots gm.20.00 - —
Adeps lanae (see Lanolin).
Adonis, vernalis herb, bls lb. .22 - .24
Adrenocorticotropic hormone (see ACTH).
Agar, USP, Kobe No. 1, strip, bls. lb. 2.00 - 2.25
powdered, 30 mesh, fib. dms, lb. 2.50 - 2.65
Agaric, white, bls lb 2.25 Nom.
Agrimony herb, bls lb. .25 - .30
Alanine, dextro-laevo, dms., works lb 8.50 -11.00

Albumen (egg), edible, flake, bbls., lb. 2.58 - 2.60
powder, bbls lb. 2.62 - 2.64
tech., cryst., bbls lb. 1.03 - 1.07
Albumin, blood, dark (see Blood, dried, soluble).
light, dms, l.c.l. lb. .67 - .80
Egg (see Albumen).
Alcohol, allyl, dms., c.l., dlvd lb. .31¼- —
l.c.l., dlvd lb. .32½- —
tanks, dlvd. lb. .30 - —
Amyl, ex fusel oil (see Fusel oil, ref.)
ex pentane, dms., c.l., frt. alld, E. of Rockies lb. .16¾- —
l.c.l., frt. alld. E. of Rockies lb. .17½- —
tanks, frt. alld. E. of Rockies lb. .15 - —
fermentation, ref'd., 126°-132°C, dms., c.l., dlvd. lb. .32¾- —
l.c.l., dlvd lb. .33¾- .36
tanks, dlvd lb. .31 - —
128-132° C., dms., l.c.l., dlvd. lb. .33¾- .36
ACS grade, dms., l.c.l., dlvd lb. .35¾- —
synthetic, normal, dms., c.l., works lb. .42 - —
l.c.l., works lb. .43 - —
tanks, works lb. .40 - —
secondary, dms., c.l., frt. alld, E lb. .23¼- —
l.c.l., frt. alld. E lb. .24 - —
tanks, frt. alld. E lb. .21½- —
tertiary, dms. c.l., frt. alld E. lb. .19¾- —
l.c.l., frt. alld, E lb. .20½- —
tanks, frt. alld. E lb. .18 - —
Benzyl, NF, dms lb. .64 - .79
tech., dms., dlvd lb. .47½- .49
Butyl, fermentation, normal, dms., c.l., frt. alld lb. .14¾- —
l.c.l., frt. alld lb. .15½- —
tanks, frt. alld lb. .13 - —
synthetic, normal, dms., c.l., dlvd lb. .14¾- —
l.c.l., dlvd lb. .15½- —
tanks, dlvd lb. .13 - —
secondary, dms., c.l., dlvd. lb. .12¾- —
l.c.l., dlvd lb. .13½- —
tanks, dlvd lb. .11 - —
tertiary, dms., c.l., frt. alld. lb. .13¾- —
l.c.l., frt. alld lb. .14½- —
tanks, frt. alld lb. .12 - —
Capryl, 85%, dms., c.l., works lb. .15 - —
l.c.l., works lb. .15¼- —
tanks, works lb. .13¼- —
95%, dms., c.l., works lb. .16¼- —
l.c.l., works lb. .17 - —
tanks, works lb. .15 - —
Cetyl, extra, fib., cns., 500-lb. lots or more lb. .78 - —
smaller lots lb. .80 - —
NF, fib., cns., 140-lb. lots or more lb. .58 - .82
smaller lots lb. .59 - .82
Cinnamic, bots lb. 2.25 - 2.75
Decyl, bots lb. 2.00 - 2.50
Denatured, CD12, CD13, CD14, CD17, dms., c.l., dlvd. E. of Rockies gal. .61½- —
l.c.l., dlvd., same basis gal. .65½- .70⅛
tanks, dlvd., same basis gal. .49½- —
Tankcar sales require written authorization by Alcohol and Tobacco Tax Unit.
Proprietary solvent, dms., c.l., dlvd. E. of Rockies gal. .63 - —
l.c.l., same basis gal. .67 - .72
tanks, same basis gal. .51 - —
Tankcar sales require written authorization by Alcohol and Tobacco Tax Unit.
SD1, dms., c.l., dlvd. E. of Rockies gal. .62½- —
l.c.l., same basis gal. .66½- .71⅛
tanks, same basis gal. .50½- —
SB2B, dms., c.l., dlvd. E. of Rockies gal. .61 - —
l.c.l., same basis gal. .65 - .70
tanks, same basis lb. .49 - —
SD3A, dms., c.l., dlvd. E. of Rockies gal. .60 - —
l.c.l., same basis gal. .64 - .69
tanks, same basis lb.gal. .48 - —
SD23A, dms., c.l., dlvd. E. of Rockies gal. .62½- .63
l.c.l., same basis gal. .66½- .72
tanks, same basis gal. .50½- .51
SD23H, dms., c.l., dlvd. E. of Rockies gal. .63 - —
l.c.l., same basis lb. .67 - .72
tanks, same basis gal. .51 - —
SD29-1, dms., c.l., dlvd. E. of Rockies gal. .60½- .61⅛
l.c.l., same basis gal. .65½- .70⅛
tanks, same basis gal. .48½- .49⅛
SD30, dms., c.l., dlvd. E. of Rockies gal. .60 - —
l.c.l., same basis gal. .64 - .69
tanks, same basis gal. .48 - —
SD35A, dms., c.l., dlvd. E. of Rockies gal. .63 - —
l.c.l., same basis gal. .67 - .72
tanks, same basis gal. .51 - —
SD40, dmes., c.l., dlvd. E. of Rockies gal. .61 - —
l.c.l., same basis gal. .65 - .70
tanks, same basis gal. .49 - —
Diacetone, acetone free, dms., c.l., dlvd lb. .13¾- —
l.c.l., dlvd lb. .14½- —
tanks, dlvd lb. .12 - —
tech., dms., c.l., dlvd lb. .13¾- —
l.c.l., dlvd lb. .14 - —
tanks, dlvd lb. .11½- —
Ethyl, 190 pf., USP, tax paid, dms., c.l., dlvd. E. of Rockies. gal.20.55 - —
l.c.l., same basis gal.20.59 -20.64
tanks, same basis gal.20.43 - —
tax free, dms., c.l., dlvd. E. of Rockies gal. .60 - —
l.c.l., same basis gal. .64 - .69
tanks, same basis gal. .48 - —
absolute, 200 pf., tax paid, dms., l.c., dlvd. E. of Rockies. gal.21.65 - —
l.c.l., same basis gal.21.69 -21.74
tanks, same basis gal.21.53 - —
Ethylbutyl, dms., c.l., works lb. .29¼- .29⅛
l.c.l., works lb. .30 - —
tanks, works lb. .28 - —
Ethylhexyl, dms., c.l., dlvd. E lb. .27¾- —
l.c.l., same basis lb. .28¾- —
tanks, same basis lb. .26¼- —
Furfuryl, tech., cns., works lb. .31 - —
dms., c.l., works lb. .22½- —
l.c.l., works lb. .24 - —
tanks, works lb. .19½- —
Isoamyl (see Alcohol, amyl, fermentation, refined).
Isobutyl, dms., c.l., dlvd lb. .13¾- —
l.c.l., dlvd lb. .14½- —
tanks, dlvd lb. .12 - —
Iso-octyl, dms., c.l., dlvd lb. .26¼- —
l.c.l., dlvd lb. .27 - —
tanks, dlvd lb. .24½- —
Isopropyl, refd., 91%, dms., c.l., dlvd. gal. .53½- —
l.c.l., dlvd gal. .58½- —
tanks, dlvd gal. .41½- —
95%, dms., c.l., dlvd gal. .55¾- —
l.c.l., dlvd gal. .60¾- —
tanks, dlvd gal. .43¾- —
99%, dms., c.l., dlvd gal. .58 - —
l.c.l., dlvd gal. .63 - —
tanks, dlvd gal. .46 - —

That master chronometer at the U.S. Naval Observatory is always *right*—to the thousandth of a second! Standards of accuracy and reliability set by Publicker also are extremely precise. Whether you measure in c.c.'s or gallons you can always depend on Publicker for absolute uniformity and highest quality chemicals. And you pay no premium here!

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PUBLICKER INDUSTRIES INC.

One of the World's Largest Producers of Alcohol and Solvents

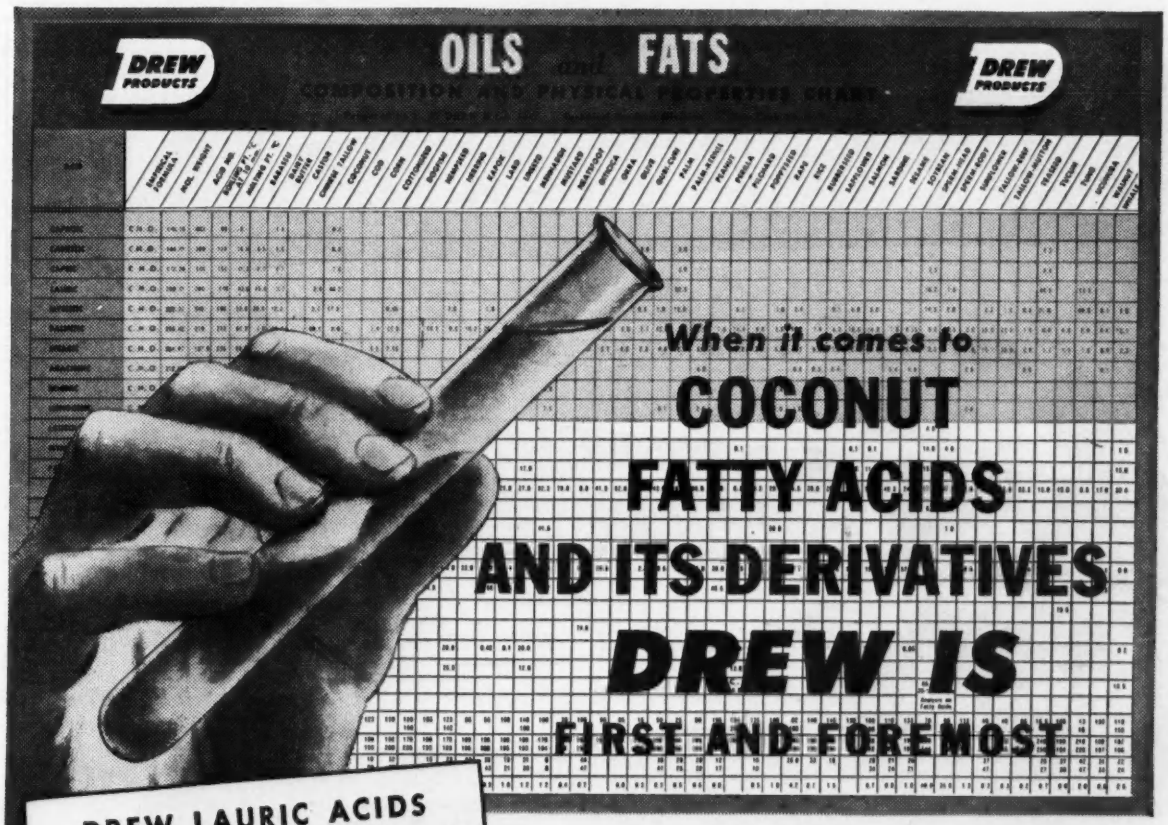
1429 WALNUT STREET, PHILADELPHIA 2, PENNSYLVANIA

Alcohol, lauryl, bots.....lb. 2.00 - 2.50
Methyl (see Methanol).
Methylamyl (see Carbinol, methyl-isobutyl)
Octyl, perfumer's grade, bots..lb. 2.00 - 3.25
technical (see Octanol normal).
Pentothenyl (see Panthenol).
Phenylethyl, dms.....lb. 1.57 - 2.15
Propyl, normal, dms., c.l., dlvd.
lb. .12 - —
l.c.l., dlvd.....lb. .13 - —
tanks, dlvd.....lb. .10 - —
Polyvinyl, various grades, bgs., ton lots, works lb. .72½- .76
smaller lots works lb. .77½- .81
Tetrahydrofurfuryl, cns., Waverly, N. Y..lb. .54 - —
dms., c.l., Niagara Falls, N. Y. lb. .45 - —
l.c.l., Waverly, N. Y....lb. .47 - —
tanks, Niagara Falls, N. Y..lb. .43 - —
industrial grade, dms., c.l., Niagara Falls, N. Y..lb. .305 - —
l.c.l., Waverly, N. Y....lb. .325 - —
tanks, Niagara Falls, N. Y.lb. .29 - —
Wood (see Methanol).
Aldol, 95%, dms., works.....lb. .23 - —
denaturing grade, dms.....gal. 2.15 - —
Aldrin, 60% solut., dms., c.l. works frt. alld..lb. .64½- —
l.c.l., works, frt. alld....lb. .76½- —
Aletris root, bgs.....lb. 1.20 1.25
Algin (see Sodium alginate).
Alkanet root, bgs.....lb. .35 - .50
Allethrin, 100%, dms., frt., alld..lb.32.00 - —
90%, dms., frt. alld.....lb.28.80 - —
solution, 20%, dms. 100-lb. lots. frt. alld..lb. 6.65 - —
2½%, dms., frt. alld.....gal. 6.00 - —
Allspice (see Pimento).
Allyl bromide, cbys., works.....lb. 1.35 1.40
Chloride, dms., c.l., dlvd.....lb. .16¾- —
l.c.l., dlvd.....lb. .17½- —
tanks, dlvd.....lb. .15 - —
Starch, solid, dms., works.....lb. .52¾- .54¾
solution, 40% toluol-butanol, dms., works lb. .25½- .26¼
Aloe, Cape, cs.....lb. .29 - .32
powdered, cs.....lb. .38 - .45
Curacao, kgs.....lb. .50 - .55
Socotrine, kgs.....lb. .25 - .35
Aloin, USP, bbls., dms., kgs....lb. 4.25 4.70
Alphanaphthol, bbls., frt. alld....lb. .85 - —
Alphanaphthylamine, bbls., frt. alld. lb. .45 - —
Alphanitronaphthalene, bbls., frt. alld lb. .41 - —
Alphapicoline, ret. dms., c.l., works, frt. equald..lb. .43½- —
l.c.l., works, frt. equald.....lb. .44 - —
Alphapinene, tanks, South, works gal. No prices.
Alphaterpineol, dms., l.c.l., dlvd. lb. .17 - —
Alphatocopherol, bots.....kilo.250.00 - —
Acetate, bots.....kilo.250.00 - —
Althea root, NF, peeled, bls....lb. .20 - .33
Alum, ammonium, gran., bgs., works 100 lbs. 3.80 - —
lump, dms., works....100 lbs. 4.55 - 4.95
powd., dms., works....100 lbs. 4.70 - 5.10
USP, burnt, dms.....lb. .20 - .21
hydrous, dms.....lb. .07¾- .08
Potassium, gran., bgs., works. 100 lbs. 4.05 - —
lump, dms., works....100 lbs. 4.80 - 5.20
powd., dms., works....100 lbs. 4.95 - 5.35
USP, burnt, dms.....lb. .20 - .21
hydrous, dms.....lb. .07¾- .08
Potash-chrome, dms.....lb. .17 - —
Sodium, dms., c.l., works..100 lbs. 4.60 - —
l.c.l., works.....100 lbs. 5.00 - —
Alumina, calcined, bgs., c.l., works. lb. .0385- —
l.c.l., works.....lb. .0410- .0510
crystalline (see Aluminum oxide).
Aluminum acetate, basic solut., 24%, bbls., l.c.l., works lb. .14 - —
Chloride, com'l, anhyd., dms., c.l., works, frt. equald lb. .15 - —
l.c.l., works, frt. equald. lb. .1550- —
cryst., dms., c.l., works....lb. .1030- —
l.c.l., works.....lb. .1070- —
solution, 32° cbys., c.l., works. lb. .0369- —
l.c.l., works.....lb. .0435- .0960
tankcars, works..100 lbs. 2.80 - —
NF, gran., dms., works lb. .29 - .31
Fluoride, tech., anhyd., bgs., c.l., works lb. .11¾- —
l.c.l., works.....lb. .12¾- —
Aluminum fluoride, fiber dms., 35c. per 100 lbs. higher.
Formate, basic solution, cbys lb. .09½- —
l.c.l., works.....lb. .10 - —
Hydrate, heavy, bgs., c.l., frt. equald. ton.60.00 - —
l.c.l., works.....ton.65.00 -65.00
light, bgs., dlvd.....lb. .17 - —
Hydroxide, gel, pnarmaceutical, 14-15% Al_2O_3, fib. dms., works lb. .22 - —
contract, works lb. .21 - —
9-9½% Al_2O_3, fib. dms., works lb. .19 - —
contract, works lb. .18 - —
dried, USP, XIV, fib., dms., works..lb. .82½- —
contract, works lb. .79½- —
powder, tech (see Aluminum hydrate).
Laurate precip, bbls lb. .44 - —
Metal, 99%+, ingots, 10,000-lb lots. frt., alld lb. .20½- —
pigs, 10,000-lb. lots frt., alld., lb. .19½- —
Oxide, amorphous (see Alumina, calcined).
crystalline, flour classified, 8-240 mesh, dms, frt. alld lb. .14 - .15
kgs., frt. alld.....lb. .12½- —
smaller lots, frt. alld. lb. .13 - .15
288-400 mesh, dms., frt. alld lb. .32 - .33
kgs., frt. alld lb. .31 - —
500 mesh, dms., frt. alld..lb. .35 - .37
kgs., frt. alld.....lb. .34 - —
600 mesh, dms., frt. alld. lb. .51 - .53
kgs., frt. alld.....lb. .50 - —
Aluminum oxide flour prices W. of Denver ¾c. per lb. higher.
optical, floated, kgs., dlvd....lb. .36 - .36
unclassified, dms., frt. alld. lb. .16 - .17
kgs., frt. alld.....lb. .15 - —
Paste, lining, extra-fine, dms lb. .39½- —
standard, dms.....lb. .41 - —
Powder, lining, extra fine, dms..lb. .97½- —
standard, dms.....lb. .68½- —
rubber grade, dms.....lb. .53½- —
unpolished, standard, dms....lb. .54½- —
varnish, standard, dms.....lb. .59 - —
Aluminum powder and paste prices are f.o.b. shipping point. Add 1c. per lb. for 100-lb. dms., 1½c. per lb for 50-lb. dm., 3c. per lb. for 10-lb. can and 5c. to 12c. per lb. for smaller containers. Deduct 1c. per lb. for single shipment of 400 to 1,499 lbs., 2c. for 1,500 to 4,999 lbs., 3c. for 5,000 to 29,999 lbs., and 4c. for 30,000 lbs. or more. Where destination is within the continental U. S., a deduction equivalent to the lowest available common carrier transportation rate will be made from seller's invoice on orders of 200 lbs. or over.
Resinate, precip., dms., frt. alld. lb. .27½- —
Stearate, dibasic, ctns., c.l....lb. .33 - —
ton lots or less.....lb. .34 - —
monobasic, ctns., c.l.....lb. .33 - —
ton lots or less.....lb. .34 - —
tribasic, ctns., c.l.....lb. .33 - —
ton lots or less.....lb. .34 - —

Aluminum sulphate, com'l, bulk, c.l., works..100 lbs. 1.65 - —
ground, bgs., works.....ton.33.00 - —
lump, bgs., works.....ton.36.00 - —
iron-free bgs. c.l., works, frt. equald..100 lbs. 3.25 - —
l.c.l., works, frt. equald 100-lbs. 3.65 - 6.15
USP, gran., dms., works....lb. .13 - .15
powd., dms., works.....lb. .14 - .16
Trihydrate heavy (see Aluminum hydrate)
Ambergris, gray, bots.....oz. 8.00 -10.00
Ambrette seed bgs.....lb. .65 .66
Aminoazotoluene, bbls.....lb. .94 - 1.03
Aminoethylethanolamine, dms., c.l., dlvd lb. .46½- —
l.c.l., dlvd.....lb. .47½- —
tanks, dlvd.....lb. .45 - —
Aminomethylpropanol, cns., dms., works..lb. .60 - —
Aminophyllin, USP, 100-lb. dms..lb. 4.00 - 4.30
Aminopyrine, USP, bots, dms..lb. 6.00 - 6.15
Ammonia, anhydrous, fertilizer. tanks, works..ton.82.00 - —
pure, cyls., extra, zone 1....lb. .17 - .17½
2.....lb. .17 - .18
3.....lb. .17 - .19
4.....lb. .20 - .21
5.....lb 16 - 19
refrigeration tanks, works..ton.84.00 -84.50
Aqua (29.4%, NH_3), dms., c.l., dlvd., Met. area .100 lbs. 3.60 - —
l.c.l. works 100 lbs 4.00 - —
tanks, works, anhyd. basis .ton.86.00 -90.00
Ammoniac gum (see Gum, ammoniac).
Sal, gray, bgs., c.l., works, frt. equald 100 lbs 8.25 - —
l.c.l., same basis 100 lbs. 8.65 -11.15
white, gran. bgs., c.l., works 100 lbs 4.75 - —
l.c.l. works.....100 lbs 6.50 - —

Ammoniacal liquor, tankcars, works, anhyd. basis..ton.90.00 - —
Ammonium acetate, purified, dms.lb. .38 - —
Benzoate, USP, dms., kgs., 4,000 lb. lots, frt. alld. lb. .80 - —
smaller lots, frt. alld.....lb. .81 - 1.08
Biborate, bbls., c.l., works....ton.312.00 - —
ton lots, ex whse.....ton.375.00 - —
less ton lots, ex whse...ton.380.00 - —
Bicarbonate, dom., dms., c.l., works lb. .06 - —
l.c.l., works.....lb. .07 - —
imported, dms., l.c.l.....lb. .07¼- .08¼
Bichromate, bbls., works.....lb. .34½- .38½
Bifluoride, dms., dlvd.....lb. .2035- .2160
Bromide, NF, gran., bbls.....lb. .38 - .39
dms.....lb. .39 - .42
Powdered ammonium bromide 10c. per lb higher
Carbonate, USP, lump, powd., dms lb. .23 - .24
Chloride, tech. (see Ammoniac, sal).
USP, gran., bbls., dms....lb. .17¼- —
Citrate, dibasic, bbls.....lb. .75 - —
dms.....lb. .80 - .85
Fluoride (see Ammonium bifluoride).
Hydroxide (see Ammonia aqua).
Hypophosphite NF dms.....lb 2.40 —
Iodine, NF, dms., bots.....lb. 4.26 - 4.38
Linoleate, 80%, dms., works..lb. .50 - .55
Nitrate, fertilizer grade, Canadian eastern, 33.5% N, bgs., c.l., shipping point ton.72.50 - —
western, 33.5% N., bgs., f.o.b. cars, Los Angeles ton.86.84 - —
domestic, bgs., western works ton.64.00 - —
with dolomite, 20.5% N, bgs., Hopewell, Va ton.51.00 - —

Ammonium oxalate, fine gran., dms. lb. .26½- .31
Pentaborate, gran., bbls., c.l., works ton [illegible] —
ton lots, ex whse.....ton.285.50 - —
less ton lots, ex whse ton [illegible] —
Ammonium pentaborate powder, $10 per ton higher
Perchlorate, kgs., works.....lb. .50 .73
Persulphate, kgs.....lb. .38 - —
Phosphate, com'l bgs., c.l., works, frt. equald lb. .08½- —
l.c.l., same basis lb .09 —
dibasic, NF V bbls., dms lb. .45 —
tech., bgs., c.l., works, frt. equald lb. .08½- —
l.c.l., same basis lb .09 —
Salicilate, NF, dms., kgs.....lb. 1.62 - 1.64
Silicofluoride dms. works lb .11 .12
Sulphamate, bbls. dms., works lb. .18 .20
Sulphate, coke-oven, bulk, producing ovens ton.44.00 -49.50
synthetic, bgs. c.l., western works ton.50.00 -54.50
bulk, works.....ton.47.00 -49.50
purified dms. works lb .07½ .08½
Sulphide, liq., 40-44%, dms., c.l., basis 100%, frt. equald ton.240.00 - —
l.c.l., basis 100%, works.ton.300.00 - —
tanks, frt. alld.....ton.180.00 - —
Sulphocyanide, tech. (see Ammonium thiocyanate)
Thiocyanate, tech., dms., c.l., works lb. .18 - —
l.c.l., works.....lb. .20 - .23
Thioglycolate, com'l, cbys., basis 100% lb. 1.60 - —
highly purified, cbys., basis 100% lb. 1.70 - 1.96



DREW LAURIC ACIDS

APPROXIMATE CHEMICAL COMPOSITION	AAB %	ABL %	AB %	ABH %	AAAR %
Caproic C6	—	—	—	—	—
Caprylic C8	2.0	1.5	1.0	1.0	1.0
Capric C10	4.0	3.5	3.0	3.0	2.0
Lauric C12	90.0	70.0	60.0	60.0	45.0
Myristic C14	2.0	13.0	18.0	18.0	22.0
Palmitic C16	—	8.0	7.0	7.0	11.0
Stearic C18	—	1.0	1.0	8.0	2.5
Oleic C18	2.0	3.0	7.0	3.0	11.0
Linoleic C18	—	—	3.0	—	5.5
Linolenic C18	—	—	—	—	—
APPROXIMATE CHEMICAL DATA	**AAB**	**ABL**	**AB**	**ABH**	**AAAR**
FFA	139-144	138-141	126-132	129-132	116-126
TITRE °C	37.0 Min.	36.0 Min.	24-26	29	30.0 Max.
IODINE VALUE	3.0 Max.	5.0 Max.	9-16	3.0 Max.	14-22
ACID VALUE	277-287	275-281	251-263	251-263	232-253
SAP. VALUE	277-287	275-281	251-263	251-263	232-253
COLOR	15.0/2.0	20.0/3.0	20.0/3.0	15.0/2.0	35.0/5.0

Take LAURIC ACIDS, for instance

... notice the

- **WIDE CHOICE**
- **OUTSTANDING QUALITY**

Drew markets a variety of Lauric Acids, individually tailored to specific needs in the chemical, drug and cosmetic fields. Continual development of diversified physical properties makes it possible for you to select exactly the right Lauric Acid for your formula. And Drew's consistent uniform quality gives you a *plus* factor that means a head start for your product.

Write for booklet, "DREW FATTY ACIDS" and copy of Drew's new chart, "OILS AND FATS".

TECHNICAL PRODUCTS DIVISION

E. F. DREW & CO., Inc.

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CHICAGO PHILADELPHIA BOSTON

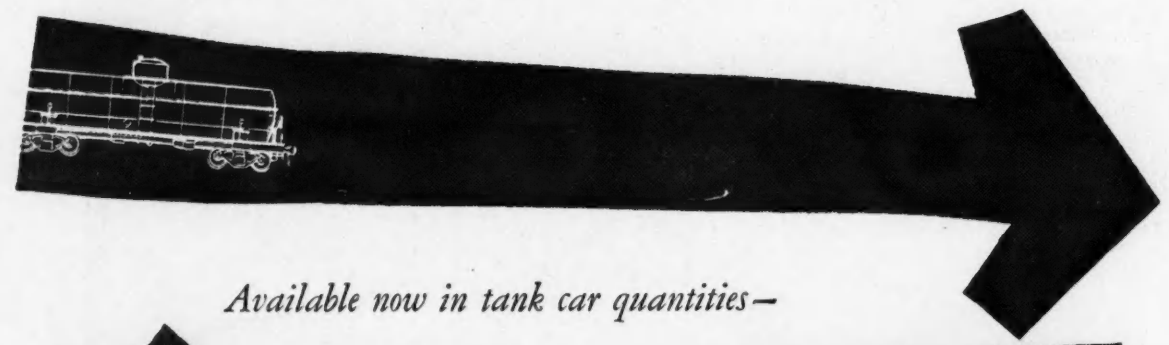
DREW PRODUCTS

Ammonium Thiosulphate—Biphenyl

Ammonium thiosulphate, cryst., photo grade, fib. dms., frt. alld lb. .65 - —
60% solution, dms., c.l., works lb. .06½- —
Amphetamine hydrochloride dibasic, dextro, bots lb.28.00 - —
dextro-laevo, dms. lb. 6.00 - —
monobasic, dextro, bots lb.28.00 - —
Phosphate, dibasic, dextro, bots.lb.28.00 - —
dextro-laevo, dms. lb. 6.00 - —
Sulphate, dextro, dms lb.28.00 - —
dextro-laevo, dms. lb. 6.00 - —
Amyl acetate ex fusel oil, tech., E of Rockies lb. .16¾- —
t.c.l., same basis lb. .17½- —
tanks, same basis lb. .15 - —
ex pentane, dms., c.l., frt. alld. E of Rockies lb .20 - —
t.c.l. same basis lb 21 - —
tanks, same basis lb .18 - —
Alcohol (see Alcohol, amyl).
Butyrate, dms lb. .90 - 1.05
Cinnamic aldehyde, dms lb. 1.70 - 2.00
Nitrite, USP, bots lb. 1.75 - 1.83
Salicylate, cns., dms lb. .75 - 1.05
Anethol, NF, cns., dms lb. 1.00 - 1.37
Angelica root dom., bls lb 60 - 70
imported, bls. lb. .40 - .95
Angostura bark, bls lb. .43 - .48
Anilin oil, dms., c.l., works, frt. alld. lb .19 - —
t.c.l., works, frt alld lb. .20 - —
tanks, works, frt. alld lb. .18 - —
Salt, dms., frt. alld lb. .30 - —
Anise, Balkan, bgs lb. .12 - .12¼
Chinese, star, bgs lb. .95 Nom.
Czech, bgs lb. .12 - .12½
Anise, Mexican, bgs lb. .15 - .15½
Spanish, bgs lb. .17 - .17½
Syrian, bgs lb. .13½- .14
Turkish, bgs lb. .13½- .14
Anisic aldehyde, bots., dms lb. 2.35 - 2.70
Annatto seed, whole, bgs lb. .26 - —
powdered, dms lb. .28 - —
Anthracene, 80-85%, bbls., ton-lots, works lb. .80 - —
smaller lots, works lb. .85 - —
Anthraquinone, 99.5%, bbls., frt. alld lb. .85 - .88
Antimony butter (see Antimony trichloride)
Metal, bulk, c.l., mines lb. .34½- —
cases, c.l., mines lb. .35 - —
Oxide, bgs., c.l., frt. alld lb. .27½- .36
t.c.l., frt. alld lb. .29 - .39½
Sulphide, 62-64%, bgs. dlvd lb. .38 - .38½
Trichloride, palls, c.l., works lb. .43 - .47
t.c.l., works lb. .45 - .49
solution, cybs., works lb. .29 - .30
Antimony-potassium tartrate (see Tartar emetic.
Antipyrene, NF, dms lb 2.50 2.60
Apomorphine hydrochloride, USP, bots oz.23.40 -23.90
Areca nuts, powd., bbls. lb. .18 - .19
Arecoline hydrobromide, NF, bots. tins oz 5.00 5.75
Arginine monohydrochloride, laevo, dms., 1 kilo lots kilo.77.00 - —
Argols, min 50%, bgs. shipment ports, per 100 kilos, basis 100% lb. No prices.
Arnica flowers (true montana), bls. lb. .70 - .71
root, bls lb 1.45 - —
Arrowroot, powd., bgs lb. .11 - .14
Arsenic metal, lump, bbls., prompt ship't. lb. .70 - —
Trioxide, USP, dms lb. .48 - —
White, powd., bbls., c.l., dlvd lb. .05¼- —
t.c.l. dlvd. lb. .06½- .07½
Asafetida, cs lb. .32 - .35
powd., bbls. dms lb. .50 - .53
Asbestine (see Talc, fibrous, N. Y.)
Asbestos, Canadian, crude, No. 1, c.l. (20 tons), mines ton.1,300.00- —
No. 2, c.l. (20 tons) mines ton.675.00 - —
Run-of-mine, c.l. (20 tons), mines ton.556.00 - —
3K, c.l., (20 tons), mines ton.436.00 - —
3R, c.l. (20 tons), mines ton.371.00 - —
3T, c.l. (20 tons), mines ton.348.00 - —
3Z, c.l. (20 tons), mines ton.321.00 - —
4K, c.l. (20 tons), mines ton.173.00 - —
4M, c.l. (20 tons), mines ton.173.00 - —
4T, c.l. (20 tons), mines ton.156.00 - —
4Z, c.l. (20 tons), mines ton.156.00 - —
5D, c.l. (20 tons), mines ton.122.50 - —
5K, c.l. (20 tons), mines ton.122.50 - —
5M, c.l. (20 tons), mines ton.116.50 - —
5R, c.l. (20 tons), mines ton.110.00 - —
6D, c.l. (30 tons), mines ton.78.00 - —
7D, c.l., (30 tons) mines ton.68.50 - —
7F, c.l. (30 tons) mines ton.65.00 - —
7H, c.l. (30 tons), mines ton.55.00 - —
7K, c.l. (30 tons), mines ton.46.00 - —
7M, c.l. (30 tons) mines ton.40.00 - —
7R, c.l. (30 tons), mines ton.39.00 - —
7T, c.l. (30 tons), mines ton.37.00 - —
7RF, c.l., (30 tons), mines ton.40.00 - —
7TF, c.l (30 tons) mines ton.40.00 - —
8S, c.l. (30 tons) mines ton.27.00 - —
Asbestos c.l. prices are in U. S. funds. L.c.l. lots, $4 per ton higher.
Asphalt, gilsonite, black, seconds, 300°-390°F fusing point not uniform, bgs. c.l., Craig, Colo.; Heber City, Utah ton.34.00 - —
Asphalt, gilsonite, select, 350°F, fusing point, bgs., c.l., same basis ton.38.00 - —
270°-295°F. fusing point, bgs., c.l., same basis ton.37.00 - —
f.t., bgs., c.l., same basis ton.34.00 - —
Manjak, No. 10, crude, dms., works lb. .06½- —
Petroleum, cut-back, tanks, tank-wagon, refinery gal. .09 - —
emulsion, tanks, tank-wagon refinery gal. .09½- .10
steam-refd., less than 80 penetration, tanks, tankwagon, refinery ton.22.00 - —
80-300 penetration, tanks, tank-wagon, refinery ton.21.00 - —
Aspirin (see Acid, Acetylsalicylic.)
Atropine, USP, bots oz. 9.35 -10.00
Sulphate, USP, bots oz. 4.50 - 5.00

B

Bacitracin, bulk, 1,000,000,000 or more units 50,000 units. .70 - —
less than 1,000,000,000 units 50,000 units. .75 - —
Balm of Gilead buds, dried, bgs lb. 1.35 1.45
Barberry root bark, bags lb. .28 - .30
tree bark, bgs. lb. .40 - .45
Barbital, USP, 100-lb. dms. lb 5.00 - —
Sodium USP dms lb 5.25 5.27
Barium, carbonate, precip., bgs., c.l., works ton.92.50 - —
smaller lots, works ton.102.50 - —
Chlorate, kgs., works lb. .32 - .36
Chloride, anhyd., bgs., c.l., works. ton.158.00 - —
l.c.l., works ton.168.00 - —
NF, cryst., dms lb. .16 - —
Chromate, bgs., frt. equald lb. .30 - —
Dioxide (see Barium peroxide)
Hydrate, crystals, bgs ton.190.00 -200.00
Iodide bots lb. 6.14 - —
Monoxide (see Oxide).
Nitrate, bbls., c.l., works lb. .12½- —
l.c.l., works lb. .14 - —
Oxide, grd., dms., c.l., frt. equald. ton.255.00 - —
l.c.l., works ton.265.00 - —
Peroxide, dms., works lb 16 - —
Stearate, ctns., c.l. lb. .37 - —
ton lots lb. .38 - —
less ton lots lb. .39 - —
Sulphate, tech. (see Barytes and Blanc fixe).
X-ray, dms lb. .14½- —
Sulphide, dms., c.l., works ton.85.00 - —
l.c.l., works ton.95.00 - —
Barytes, Southern off-color, bgs. mines ton.20.00 - —
95.75% bgs. mines ton 20.00 - —
water-grd., paper bgs., c.l., E. St. Louis ton.41.60 - —
ex-whse., N. Y. ton.60.10 - —
Bauxite, bulk, mines ton 9.50 -10.00
Bay leaves (see Laurel leaves).
Belladonna leaf, bls lb. .32 - .35
root, bls lb .35 .40
Bentonite, dom., 200 mesh bgs., works ton.14.00 - —
imported, Italian, white, high gel., bgs., 10 tons to c.l., ex dock ton.65.90 - —
5 ton-lots, ex whse. ton.80.60 - —
1 ton-lots, ex whse. ton.83.10 - —
low gel, bgs., 10 tons to c.l., ex dock ton.64.40 - —
5 ton-lots, ex whse. ton.78.95 - —
1 ton-lots, ex whse. ton.81.45 - —
Benzal chloride, cbys. works lb .22 - .23½
Benzaldehyde, NF, dms. lb. .74 - 1.05
tech., cbys., dms. lb. .44 - —
Benzene (see Benzol).
Hexachloride, 99% gamma isomer (see Lindane).
tech., bgs., dms., c.l., works, gamma unit-lb. .0085- .0090
l.c.l., works, gamma unit-lb. .015 - —
dust dry, distributors, dms., c.l., dlvd., gamma unit. lb. .015 - —
l.c.l., dlvd., gamma unit-lb. .020 - —
wet, distributors, dms., c.l., dlvd., gamma unit lb. .025 - —
l.c.l., dlvd., gamma unit-lb. .0325- —
Benzidine base, bbls lb. 1.02 - —
Hydrochloride, bbls., frt. alld lb. .94 - —
Benzocaine, dms lb. 3.48 - 3.50
Benzol, pure or nitration, tanks, works
Bethlehem, Pa. gal. .42 - —
Birmingham district gal. .40 - —
Chicago district gal. .40 - —
Cleveland district gal. .40 - —
Geneva, Utah gal. .40 - —
Johnstown, Pa. gal. .40 - —
Lackawanna, N. Y. gal. .42 - —
Lone Star, Texas gal. .41 - —
Lorain, Ohio gal. .40 - —
Minnequa, Colo gal. .39 - —
Philadelphia district gal. .42 - —
Pittsburgh district gal. .40 - —
Sparrows Point, Md. gal. .42 - —
Syracuse, N. Y. gal. .40 - —
Terre Haute, Ind. gal. .41 - —
Wyandotte, Mich. gal. .42 - —
Youngstown, Ohio gal. .40 - —
Benzophenone, dms lb. 1.40 - 1.70
Benzonitrile, dms., c.l., works lb. .46¾- —
l.c.l., works lb. .47 - —
Benzotrichloride, cbys., frt. equald lb. .18 - .20
Benzoyl chloride, cbys., dms., c.l., works, frt. equald lb. .21½- .24½
l.c.l., same basis lb. .22½- .25½
Peroxide, pure, fib. ctns., works. lb 90 - 1.05
Benzyl acetate, f.f.c., cns., dms lb. .65 - 1.05
Alcohol (see Alcohol, benzyl)
Benzoate, USP, f.f.c., cns., dms. lb. .72 - .80
Chloride, tech., cbys., c.l., works, frt. equald lb. .21 - —
l.c.l., same basis lb. .24 - —
High grade benzyl chloride, 2c. higher.
Cinnamate, cns lb. 3.00 - 3.75
Formate, cns. lb. 1.30 - 2.10
Propionate, bots lb 1.35 - 1.80
Salicylate, bots lb 1.65 - 1.85
Benzylidinacetone, bots lb. 1.68 - 2.05
Benzylisoeugenol, cns. lb. 8.60 - 9.10
Berberine bisulphate, cns lb.35.00 -36.25
Hydrochloride, bots lb.35.00 -36.25
Berberis root, bls lb. .32 - .35
Betagammapicoline, 5°, dms., c.l., works lb. .31 - .32½
l.c.l., works lb. .32 - .33
Betamethylnaphthalene, 32°C. m.p., dms., works lb. .90 - —
Betanaphthol, resublimed, dms., works lb. .78½- —
tech., bbls., c.l., works lb. .32½- —
l.c.l., works lb. .34½- —
Benzoate, fib. dms., works lb 3.00 - —
custom contract lb. 1.65 - 1.85
Salicylate, dms lb 5.00 - —
Sulphate, cns lb.35.00 -36.25
Betanaphthylamine, tech., bbls., works lb. 1.05 - 1.10
Betaphenylethylamine, dms., works, 1,000-lb. lots lb. 1.10 - —
smaller lots lb. 1.15 - 1.40
Betapicoline 98%, dms., works lb 1.05 - —
Beth root, bls lb. .40 - .41
Biotin, cryst., vials gram 10.00 - —
Biphenyl (see Diphenyl).



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Neo-Fat®8—Armour's fractionally distilled 93% pure caprylic acid—is an excellent raw material for products using caprylic acid or its derivatives. Sodium caprylate, for one, is used extensively as a germicide and antiseptic in athlete's foot ointments and lotions. There are many other applications—in plasticizers for ethyl and nitrocellulose, as a high-boiling solvent, and in the manufacture of essences, synthetic perfumes, flavors, anti-foaming agents, pharmaceuticals. Neo-Fat 8 specifications include a titer of 16°C. max.; iodine value of 1 max.; acid value of 387-392; color (Lov. 5¼") a maximum of 2R/20Y; and moisture and unsaponifiable content 0.2% each max. Write today for complete information and current price quotations.

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Armour and Company • 1355 W. 31st St. • Chicago 9, Ill.

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Bismuth chloride, jars lb. 5.11 - —
Hydroxide, dms lb. 4.65 - —
Metal, bxs., top lots lb. 2.25 - —
Nitrate, cryst., dms lb. 2.10 - —
Oxide, anhydrous, dms lb. 4.47 - 5.05
Oxychloride, dms lb. 4.37 - 4.42
Phenolsulphonate, fib. dms lb. 5.22 - —
Subcarbonate, USP, dms lb. 3.20 - —
Subgallate, NF, fib. dms lb. 3.15 - —
Subiodide, fib. dms lb. 5.37 - —
Subnitrate, NF, dms lb. 2.65 - —
Subsalicylate, USP, dms lb. 3.50 - —
Bismuth-ammonium citrate, USP, powd., jars lb. 4.22 - —
Black, acetylene, bgs., c.l., works lb. .16 - —
cs, l.c.l., ship't point lb. .20 - .22
Bone, dms., l.c.l., frt. alld. lb. .15½- .22
Pacific coast bone black prices, 2c. per lb. higher.
Carbon, channel, heads, bulk, c.l., works lb .07 - —
bgs., c.l., works lb. .0740- —
l.c.l., dlvd. or whse lb. .1225- —
uncompressed, regular, bgs., c.l., works lb. .10 - —
l.c.l., dlvd. or whse lb. .10 - —
furnace, fast extruding, bgs., c.l., works lb. .06 - —
ctns., l.c.l., whse lb. .10 - —
high abrasion, bulk, c.l., works, lb. .0750- —
bgs., c.l., works lb. .0790- —
l.c.l., dlvd. or whse lb. .122 - .123
high modulus, bgs., c.l., works, lb. .0550- —
ctns., l.c.l., whse lb. .0950- —
semi-reinforcing bgs., c.l., works lb. .04 - —
ctns., l.c.l., whse lb. .08 - —
Charcoal (see C).
Graphite (see G)
Iron oxide, pure, bgs., c.l., works. lb. .12¾- —
l.c.l., works lb. .13 - —
Lamp, bgs., c.l., works lb. .16 - .45
Mineral, bgs., works lb. .0160- .0675
Black ash (see Barium sulphide).
Blackberry, root bark, bls lb. .32 - .33
root, bls lb. .15 - .16
Black dyes (see Dyes).
Black haw, root bark, bls lb. .65 - .70
tree bark bls lb. .40 - .42
Black Indian hemp root, bbls lb. .60 - .61
Blanc fixe, dry, by-product, bgs., c.l., works ton.106.50 - —
l.c.l., works ton.116.50 - —
direct process, bgs., c.l., works, ton.100.00 - —
l.c.l., works ton.110.00 - —
N. Y. whse ton.140.88 -155.00
pulp, 70%, bbls., c.l., works, ton.105.00 - —
l.c.l., works ton.115.00 - —
Bleaching powder, dms., c.l., works, 100 lbs. 5.02 - —
l.c.l., works 100 lbs. 6.52 - —
Blood, dried, 16-16½% ammo., bgs., unit-ton. 4.75 - —
high-grade, unground, 16-17% ammon., bgs., Chicago unit-ton. 5.00 - —
soluble, bgs., c.l. lb. .16½- .18
l.c.l. lb. .18 - .25
Bloodroot, bls lb. .55 - .56
Blue, alkali dry, bbls., dlvd. N. or Tenn. and N. C., E. of Miss R. including St. Paul, Minneapolis, Davenport, Rock Island, St. Louis lb. 2.00 - —
toner, bbls., litho flushed, same basis lb. 1.15 - —
Chinese, bbls., same basis lb. .48 - —
Cobalt, genuine, bbls., same basis, lb. 4.90 - —
imitation (see Blue, ultramarine).
Copper-phthalocyanine, full strength, bbls., same basis lb. 3.85 - —
resinated, bbls, same basis lb. 3.40 - —
water dispersable lb. 1.54 - —
Iron (see Blue, Chinese, Milori, Potash, Prussian and Soda).
Methyl violet toner, molybdated, PMA bbls., same basis lb. 2.60 - —
tungstated, PTMA, bbls., same basis lb. 4.05 - —
Milori, bbls., same basis lb. .48 - —
Peacock, fugitive, 100% color strength, bbls., same basis lb. .75 - —
Potash, CP, bbls., same basis lb. .56 - —
Prussian, insoluble, bbls., same basis lb. .48 - —
soluble, bbls., same basis lb. .48 - —
Soda, C.P., bronze, bbls., same basis lb. .48 - —
Ultramarine, cobalt type, dry or pulp, bbls., same basis lb. .28 - .30½
regular types, dry, bbls., same basis lb. .15 - .33½
Victoria toner, molybdic, PMA, bbls lb. 4.10 - —
tungstated, PTMA, bbls lb. 5.35 - —
Blue, dry colors, dlvd. prices ½c. higher Ala., Fla., Ga., La. (Shreveport, 1¼c.), Miss., N. C., S. C., Tenn., Tex. (El Paso, 2c.), Cedar Rapids, Des Moines, Kansas City, Lincoln, Omaha, St. Joseph, 1 6c. higher. Pac. Coast, Denver, Pueblo, Salt Lake City, Wichita frt. equalized with Chicago.
Blue dyes (see Blue).
Blueflag, root, bls lb. .45 - .48
Bluestone (see Copper sulphate).
Blue vitriol (see Copper sulphate).
Boldo leaves, bls lb. .11 - .13
Bonemeal, steamed, works, E. ton.70.00 - —
Bone phosphate, defluorinated (see D).
of lime (see Calcium phosphate, tribasic)
precipitate, (see Calcium phosphate tribasic, NF, precip.)
Bones, raw, bulk, Atlantic ports ton.60.00 - —
Boneset leaves and tops, bls lb. .17 - .20
Borage flowers, bls lb. .65 - .66
Borax, tech., anhydrous, bgs., c.l., works ton.74.50 - —
ton lots, ex whse. N. Y. or Chi ton.120.25 - —
less ton lots, same basis ton.125.25 - —
bulk, c.l., works ton.67.50 - —
crystals, 99½%, bgs., c.l., works, ton.63.75 - —
ton lots, ex whse. N. Y. or Chi ton.109.50 - —
less ton lots, same basis ton.114.50 - —
bbls., c.l., works ton.88.25 - —
ton lots, ex whse., N. Y., or Chi ton.134.00 - —
less ton lots, same basis, ton.139.00- —
bulk, c.l. works ton.59.25 - —
granular, 99½%, bgs., c.l., works, ton.37.75 - —
less ton lots, same basis, ton.88.50 - —
ton lots, ex whse., N. Y. or Chi ton.83.50 - —
bbls., c.l., works ton.62.25 - —
ton lots, ex whse. N. Y. or Chi ton.108.00 - —
less ton lots, same basis, ton.113.00 - —
bulk, c.l., works ton.33.25 - —
powder, 99½%, bgs., c.l., works ton.42.75 - —
ton lots, ex whse. N. Y. or Chi ton.88.50 - —
less ton lots, same basis ton.93.50 - —

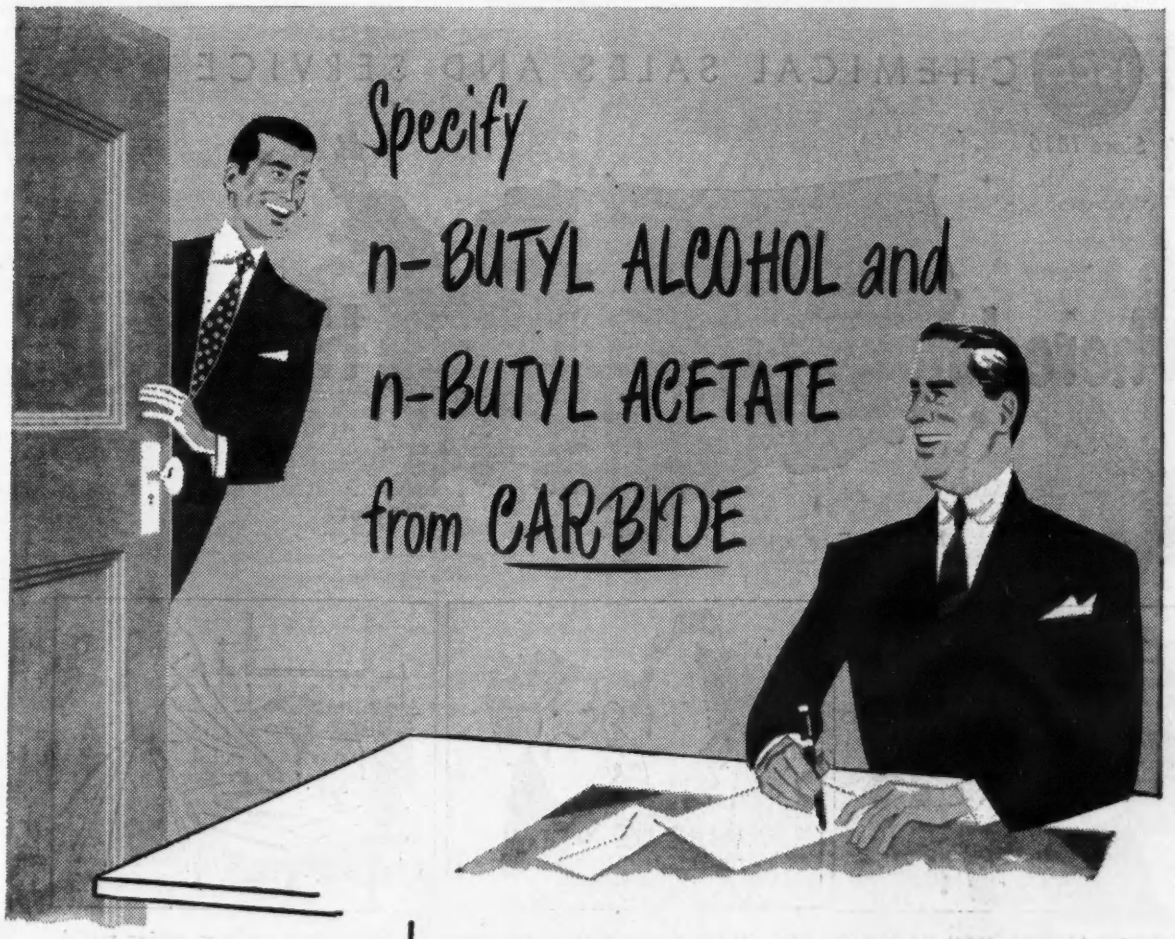
Borax, tech., powd., bbls., c.l., works ton.67.25 - —
ton lots, ex whse., N. Y. or Chi ton.113.00 - —
less ton lots, same basis, ton.118.00 - —
bulk, c.l., works ton.38.25 - —
Borax packed in kgs. $45.50 per ton higher than in paper bgs. UPS borax $15 per ton higher.
Bordeaux mixture, bgs., c.l., works, frt. alld. or nearest whse. point lb. .18 - .24
l.c.l., same basis lb. .19 - .26
Borneol, cns lb. 2.85 - 4.50
Borontrifluoride gas, cyls., truckload, works lb. .62 - —
less truckload, works lb. .70 - —
Brazilwood extract (see Hypernic extract).
Brimstone (see Sulphur).
Bromine, purified cs. c.l., frt. alld. E of Rockies lb. .25 - —
1,000-lb. lots, same basis lb. .27 - —
dms., lead-lined dlvd lb. .25 - —
Bromoform, pharmaceutical grade, bots. lb. 1.62 - 2.60
cbys. lb. 1.52 - —
Bromstyrol, bots lb. 5.40 - 5.70
Bronze powder aluminum (See A).
Gold, litho, cns., dms., works, lb. .75 - .85
moulding, cns., dms., works lb. .85 - 1.00
printing ink, cns., dms., works lb. 1.05 - 1.25
radiator, cns., dms., works lb. .80 - .85
Broomtop, bls lb. .30 - .35
Brown, iron oxide, pure, bgs., c.l., works lb. .13¾- —
l.c.l., works lb. .14 - —
Oxide, metallic, bgs., works lb. .04 - —
Sap, crystals, bgs., works lb. .12 - —
powdered, bgs lb. .13 - —

Brown, Sienna, burnt, paper bgs., c.l., works lb. .04½- .15¼
l.c.l., works lb. .04½ - .15½
raw, paper, bgs., c.l., works lb. .04½ .13
l.c.l., works lb. .04¾ .13¼
Umber, burnt, American, bgs., c.l., works lb. .06 —
l.c.l., works lb. .06¼- .07
Turkey type bgs., c.l. Boston, Bethlehem Easton Pa., Hiwassee, Va., N. Y. lb. .06¾- —
l.c.l., works lb. .07 - —
raw, American, bgs., works lb. .06¼- .06½
Turkey-type, bgs., works lb. .06¾- .07
Vandyke, bbls., works lb. .09½- .12
Brucine, cns., 100-oz. lots oz. .20 - .35
Sulphate NF, cns., 100-oz. lots oz. .15 - .30
Bryonia root, bls lb .22 .34
Buchu leaves, bls lb. .40 - .42
Buckthorn bark bls lb .13 .17
cut and sifted, bls lb .18 .23
Berries bgs lb .80 .90
Burdock root, bls lb .22 .26
Butadiene, refined, cyls., refinery lb. .22 - —
tanks, refinery lb. .15 - —
Butane, indust. tanks group 3 gal .05 - —
Butternut bark bls lb .23 .25
Butyl acetate fermentation normal, dms., c.l., frt. alld lb. .14¾- —
l.c.l. same basis lb. .15½- —
tanks, same basis lb. .13 - —
synthetic, normal, dms., c.l., dlvd. E lb. .14¾- —
l.c.l. same basis lb. .15½- —
tanks, same basis lb. .13 - —
secondary, dms. c.l., dlvd E lb. .12½- —
l.c.l., same basis lb. .13¼- —
tanks, same basis lb. .10¾- —
Alcohol (see Alcohol butyl).

Butyl aldehyde, dms., c.l., dlvd. lb. .22½- —
l.c.l. dlvd. lb. .23½- —
tanks, dlvd lb. .20¾- —
Chloride, dms., c.l., works lb. .37½- —
l.c.l., works lb. .38 - —
Ether (see Ether butyl).
Lactate, dms., c.l., frt. alld. E. of Rockies lb. .34¾- —
l.c.l. same basis lb. .35¾- —
tanks, same basis lb. 35 - —
Laurate, dms, works lb. 39 - —
Methacryiate normal, dms., less truckloads works lb. 70 - —
Oleate, refd., dms., l.c.l., works lb. .36 - —
Phenylacetate dms lb 4.50 4.60
Phthalate (see Dibutyl phthalate).
Stearate, dms., l.c.l., frt. equald lb. .24 - .27½
Butylamine (see Mono-, Di- or Tri-).
Butyric ether (see Ethyl butyrate).

C

Cacao butter (see Cocoa butter)
Cadmium iodide, jars lb. 6.75 - 7.05
Metal ingots or sticks, cs., dlvd. lb 2.00 - —
Stearate, ton lots lb. 1.42 - —
smaller lots lb. 1.44 - —
Caffeine, natural, USP, cryst., dms., 100 lbs. or more lb. 2.80 - —
anhydrous, dms lb. 3.00 - —
synthetic, USP, cryst., dms., 100 lbs. or more lb. 2.80 - —
anhydrous, dms., 100 lbs. or more lb. 3.00 - —
Citrated, USP, dms., 100 lbs. or more lb. 2.35 - —
Calamine, USP, dms lb. .34 - —



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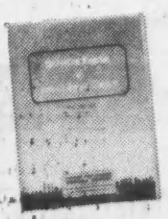

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Calamus Root—Charcoal

Calamus root, dom., natural, bgs. lb. .25 - .30
imported, bleached, bls lb. .70 - Nom.
stripped, bls lb. .30 - .40
Calciferol, cryst., vials, 1 kilo lots, works gram. .80 - —
25 to 100 gram lots, works, gram. .90 - .95
in edible oil dms., 10,000 or more standard units (1 standard unit equals 1,000,000 USP units), works unit. .04¾- —
1,000 to 10,000 standard units, works unit. .05¼- —
less than 1,000 standard units, works unit 05¾- —
Calcium arsenate, dealers, dms., c.l., whse, works, frt. alld. on 96 lbs. or over lb. .09 - .10
l.c.l., same basis lb. .10 - .11
Bromide NF, jars lb. .90 - .92
Carbide, standard generator size, dms., c.l., divd ton.134.40 - —
Carbonate (see Chalk and Whiting).
Chloride, cryst, purified, bbls., jars lb .28 - .30
flake, 77-80%, paper bgs., c.l., works, frt. equald ton.25.00 - —
liquor, 40%, tankcars, works, frt. alld ton.10.50 - —
pellets, bgs., c.l., works ton.31.25 - —
powder, bgs., c.l., works ton.35.65 - —
solid, 73-75%, dms., c.l., frt. equald ton.23.50 - —
l.c.l., works, same basis ton.32.00 -69.00
USP gran, bbls lb. .30 - —
Chromate, bgs., frt. equald lb. .29½- .30
Cyanide, dms, divd E of Rockies, lb. .24 - .50
Calcium gluconate, AA, bbls., dms. lb. .70 - .72
USP, bbls., dms lb. .63 - .65
Glycerophosphate, NF, fib. dms. lb. 2.00 - 2.15
Hydride, dms., works lb. 2.20 - 4.00
Hydrochlorite high test, cns., cased (45 lbs.) divd E of Rockies cs.21.00 -23.00
100-lb lots, same basis dm.25.25 -29.85
Hypophosphite, dms., ton lots or less lb. .90 - .93
Iodide, jars lb. 4.32 - —
Lactate USP dms., 10,000-lb lots or more, works lb. .40 - —
smaller lots, works lb .41 - .48
Mandelate, USP, dms., works lb. 2.10 - 2.25
Naphthenate, liq. 4% Ca, dms., frt equald lb. .25¾- —
Nitrate, tech., bbls., works lb. .13 - —
fertilizer grade, bgs. c.l., Los Angeles ton.49.25 - —
Pantothenate, dextro, jars, 100 grams or more, frt. adjusted gram. .07½- —
Para-aminosalicylate, fib. dms., 1,000-lb. lots or more, frt adjusted lb. 7.00 - —
smaller lots, same basis lb 7.05 - 7.50
Phenolsulphonate, dms lb. .70 - —
Phosphate, diibasic, USP, bgs., c.l., 100 lbs. 7.10 - —
l.c.l. 100 lbs. 7.60 - 7.95
feed grade, bgs. c.l., works ton.80.00 - —
l.c.l., bgs., works ton.85.00 - —
monobasic, bgs., 10,000-lb. lots, works, frt. equald lb. .0625- —
smaller lots, same basis lb. .0675- —
tribasic, precip., NF, bgs., c.l., works 100 lbs 7.10 - —
l.c.l., works 100 lbs. 7.45 - —
Calcium phytate, bgs., works lb. .26 - —
Resinate, precip., dms., frt. alld., works lb. .27¾- —
Silicate hydrated bgs., c.l., works. lb. .06 - —
l.c.l., works lb. .06½- —
Stearate, ctns., c.l. lb. .35 - —
ton lots lb. .36 - —
less ton lots lb. .37 - —
Sulphate (see Gypsum)
Calcium-strontium sulphide, phosphorescent steel pails, 100 lb. to 999 lb. lots, works. lb. 2.60 - 3.50
fine particle size, same basis, works lb. 2.65 - 3.75
Calendula flowers, bls lb. .50 - .65
Calomel, USP powd. dms lb. 4.02 - 4.05
Camphene, 46° m.p., dms. incl. c.l., works lb. .1930- —
l.c.l., same basis lb. .1980- .2115
tanks, same basis lb. .1660- —
Chlorinated, 67-69% (see Toxaphene).
Camphor monobromated, NF, dms., kgs lb. 3.00 - 3.12
natural, USP, powd., 100-lb. lots, bbls lb. .48 - .50
tablets, 1-oz., ½-oz., cs lb. .63 - .65
synthetic, tech., bbls., 10 bbls., 1,500-lb. lots lb. .55½- —
smaller lots lb. .56 - .66
USP gran. powd., bbls. 2,000-lb lots lb. .57 - —
1,000-lb. lots lb. .58 - —
smaller lots lb. .59 - —
tablets, tins, 2,000-lb. lots lb. .90 - —
1,000-lb. lots lb. .91 - —
smaller lots lb. .92 - —
Canada balsam (see Fir balsam).
Canella alba bark, bls lb. .25 - .33
Cantharides, Chinese, cs lb. 2.00 - 2.05
powd., bxs lb. 2.25 - 2.30
Russian, bgs. lb. 4.00 - 4.05
powd., bxs. lb. 4.35 - 4.40
Capsicum (see Pepper, red).
Oleoresin, NF, from domestic pepper, dms lb. 4.25 - 5.75
from African pepper, dms lb. 4.75 - 6.25
Caramel coloring, NF, bbls gal. 1.05 - 1.20
Caraway seed, Dutch, bgs. lb. .09¼- .09½
Carbazole, 97%, bbls., ton lots, works lb. 1.25 - —
steel-dms., same basis lb. 1.20 - —
Carbinol, methylisobutyl, dms., c.l., divd lb. .15¼- —
l.c.l., same basis lb. .16 - —
tanks, same basis lb. .13½- —
Carbon bisulphide, 50-gal. dms., c.l., works, frt. alld competitive points lb. .0700- —
l.c.l., same basis lb. .0800- —
5-gal. dms., c.l. same basis lb. .0950- —
l.c.l., same basis lb. .1050- —
tankcars, same basis lb. .0490- —
Dioxide, industrial, wholesale, cyl lb. .08 - —
Tetrachloride, CP, dms., works lb. .1097- .1197
NF, chys lb. .17 - .18
tech., dms., c.l., E. of Rockies, frt. alld lb. .0847- —
W of Rockies, f.o.b. stock-points lb. .0897- —
l.c.l., E. of Rockies, frt. alld. lb. .1047- —
W of Rockies, f.o.b. stock-points lb. .1107- —
tanks, E. of Rockies, frt. alld. lb. .0772- —
W of Rockies, f.o.b. stock-points lb. .0822- —
Carboxymethyl cellulose (see CMC).
Carbromal, NF, dms., 100-lb. lots, works lb. 4.00 - 4.25
smaller lots, works lb. 4.10 - 4.75
Cardamom fruit, bleached, bold, cs., afloat lb. 3.25 - —
medium, cs. lb. 2.90 - —
decorticated, Alleppey, cs lb. 1.95 - —
Guatemalan, cs. lb. 1.85 - —
Mangalore type, cs lb. 1.90 Nom.
green, Alleppey, bgs lb. 1.30 - —
Ceylon, bgs lb. 1.30 - —
seed (see Cardamom fruit decorticated).
Carmine, No. 40, NF, bulk, 100 lbs. or more, divd lb. 5.50 - —
smaller lots, divd lb. 5.65 - 6.15
Carotene, technical, 1,350,000 A units per gram, tins, works gm. .55 - —
in carrot oil, 5,000,000 to 8,000,000 A units per lb., dms., works, million units. .18 - —
microcrystalline, in oil, 400,000 A units per gram, tins, works, million units. .33 - —
Carvol, bots. lb. 6.25 - 9.65
Cascara sagrada, bark, bulk lb. .35 - .37
Casein, dom., acid-precip, standard, bgs., 10,000-lb. lots or more, ship't point lb. .28 - .32
premium bgs., 10,000-lb. lots or more, ship't point lb. .36½- .40
imported, Argentine, acid-precip., grd., 100-bg. lots or more, duty paid lb. .16¼- .17
Cashewnut shell liquid, treated, dms., c.l., Newark, N. J. lb. .22 - —
ton lots, same basis lb. .23 - —
dm. lots, same basis lb. .25 - —
Cassia, Batavia, cuttings, bls lb. .16 - .16½
longstick lb. .19 - .19½
shertstick, bls. lb. .16 - .16½
China, Canton, Kwangsi rolls, select, cs lb. .35 - .35½
broken, bls. lb. .33 - .33½
Honan, Yunnan, scraped, bls. lb. .28 Nom.
unscraped, bls. lb. .27½ Nom.
Saigon, broken, bls. lb. .47 - —
medium, bls. lb. .50 - —
thin, bls lb. .60 Nom.
Cassia, buds, bgs. lb. 1.65 Nom.
Fistula, bskts lb. .25 - .30
Castor beans, bgs., f.o.b. Brazilian ports long ton.160.00 Nom.
Oil (see Oil, castor).
Pomace, bgs., c.l., works ton.37.25 - —
Castoreum, artificial, cns lb. 9.00 - 9.25
natural, cns lb. 7.10 -30.00
Catechol, CP, cryst., fib. dms., works lb. 2.17½- —
resublimed dms., works lb. 4.29½- —
Catnip leaves, southern, bls lb. .70 Nom.
Celery seed, French, bgs lb. .44 - .45
Indian, bgs lb. .25 - .26
Celluloid scrap (see Pyroxylin scrap).
Cellulose acetate flake, ctns., divd. lb. .40 - .43
extrusion compounds, translucent, metallic pearls, special black, dms., c.l., same basis lb. .52 - —
l.c.l. same basis lb. .53 - .59
molding, composition, translucent, metallic pearls, special black, dms., c.l., frt. alld. lb. .48 - —
l.c.l., same basis lb. .49 - .55
reprocessed black, dms., l.c.l., same basis lb. .43 - .49
Acetate-butyrate, flake, 16% butyryl content, standard cartons, works lb. .64 - —
17% butyryl content, standard cartons, works lb. .54 - —
27% butyryl content, standard cartons, works lb. .64 - —
38% butyryl content, low viscosity, standard cartons, works lb. .68 - —
medium viscosity, same basis lb. .54 - —
50% butyryl content, standard cartons, works lb. .63 - —
molding composition, plain colors, pearls, transparents, special black, dms., l.c.l., frt. alld lb. .64 - .71
reprocessed, black, dms., l.c.l., same basis lb. .52 - .53
Triacetate, flake, ctns., works, frt. alld. on 100-lb. lots or more lb. .50 - —
Cerium hydrate, 74% CeO_2, fib. dms., 50-lb. lots or more lb. 1.44 - —
77% CeO_2, fib. dms., 50-lb lots or more lb. 1.60 - —
Oxalate, NF, bbls., bgs., works lb. No prices.
Oxide, optical grade, bgs., 50-lb. lots or more, works lb. 1.85 - 1.95
smaller lots, works lb. 2.03 - 2.23
Chalk, precip., cosmetic, dentifrice, drugs, bgs., c.l., works lb. .0295- .035
l.c.l., ex whse lb. .0395- .05
paint, bgs., c.l., works ton.40.00 - —
papermakers, bgs., c.l., works ton.32.50 -40.00
rubber makers, bgs., c.l., works. ton.55.00 -60.00
Chamomile flowers, Hungarian style, cs lb. .90 - 1.00
Roman, cs lb. 1.00 - 1.15
Charcoal, activated, NF, fib. dms., c.l., works lb. .25 - .32
5-ton lots, works lb. .26½- .32½
smaller lots, works lb. .27 - .50
Bone (see Black, bone).
Hardwood, briquets, bgs., c.l., works ton.77.00 -88.00
granular, bgs., works ton.77.00 - —
bulk, c.l., works ton.70.40 - —
Pinewood, gran., powd., bgs., c.l., works, South ton.43.50 - —
l.c.l., works, South ton.43.50 -53.50
lump bgs., c.l., works, South ton.40.00 —
l.c.l., works, South ton.50.00 -60.00
bulk, c.l., works, South ton.23.50 - —

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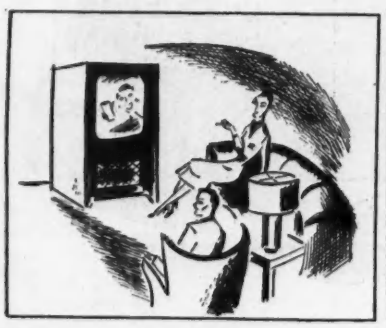

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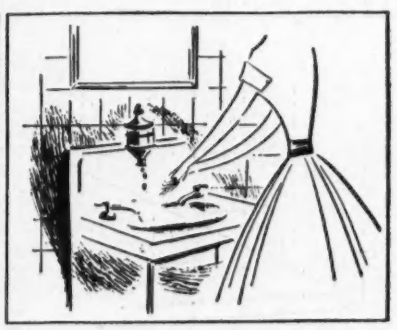
Talc—for face powder or for paints, paper, plastics, pharmaceuticals, etc. A range of grades for varying applications.



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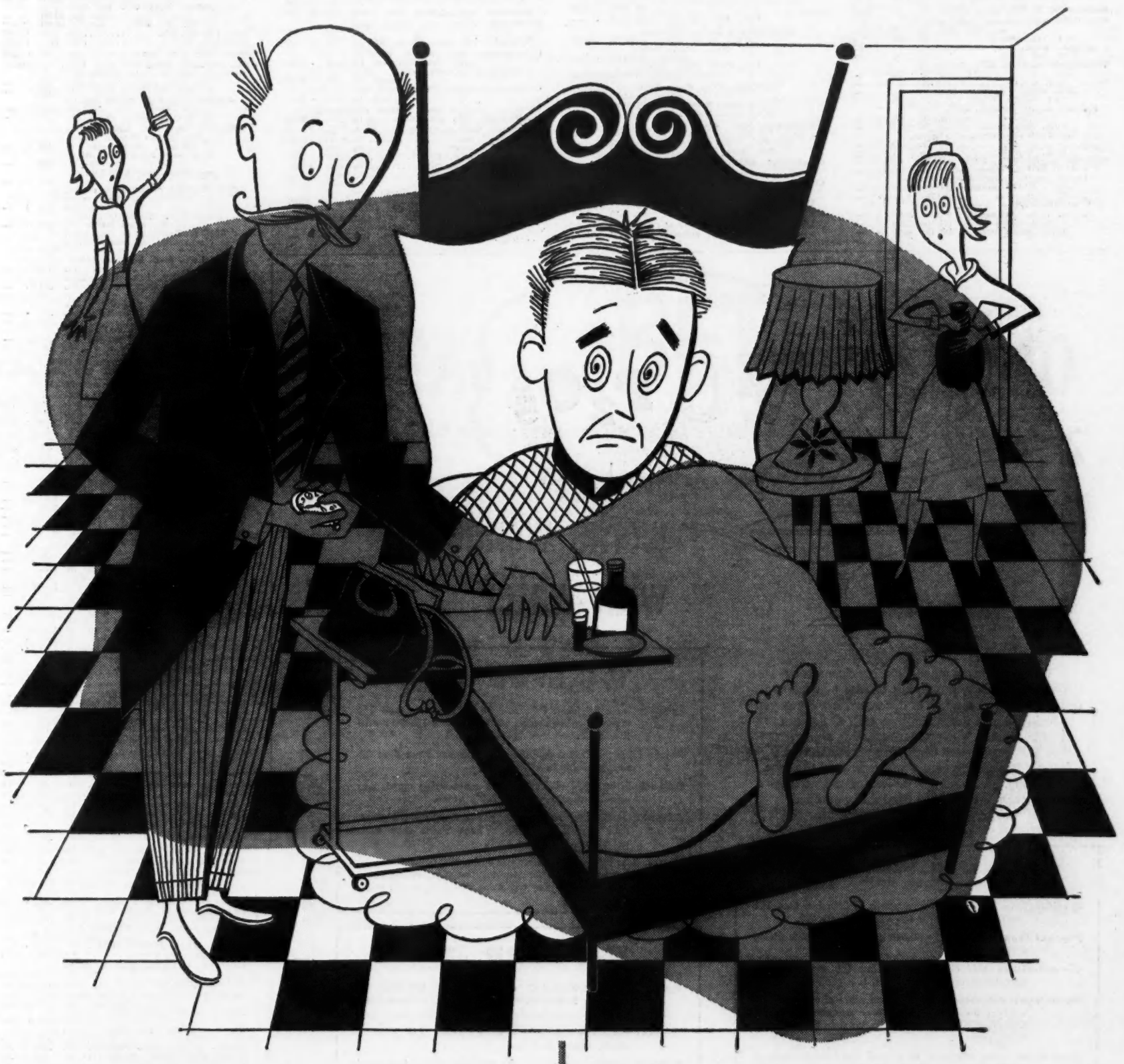

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2654 Lisbon Road, Cleveland 4, Ohio

IN CALIFORNIA: 12912 CHADRON AVE., HAWTHORNE, CAL.
IN CANADA: STRONG COBB OF CANADA, LTD., 388 ST PAUL ST., W., MONTREAL

• AMERICAN CHLOROPHYLL DIVISION, LAKE WORTH, FLORIDA

Chestnut Extract—Cornsilk

Chestnut extract, 55% tannin, bbls., c.l., works lb. .0510- —
t.c.l., works lb. .0543- —
tanks, works lb. .0425- .0440
powd., 60% tannin, bgs., extra, c.l., works lb. .1092- —
t.c.l., works lb. .1165- —
Chloral, tech., 94% min., dms., c.l., works lb. .23 - —
t.c.l., works lb. .24 - —
tanks, works lb. .21 - —
Hydrate, USP, 40-lb. jars, 1,000-lb. lots lb 1.30 - —
500-lb. lots lb 1.33 - —
100-lb. lots or less lb 1.25 1.40
Chloramine T, NF, bbls., works lb. .75 - 1.00
Chlordane, agricultural, dms., pails, c.l., frt. alld lb. .65 —
t.c.l. frt. alld lb. .66 .73
refined, dms., c.l., frt. alld lb .75 —
t.c.l. frt alld lb .76 .83
Chlorinated paraffin, 42%, dms., c.l., frt. alld lb. .14 - —
t.c.l. lb. .14¾- —
70%, dms., c.l., same basis lb. .18 - —
t.c.l., same basis lb. .19 - —
Rubber, 5, 10, 20 cps., ctns., c.l., works lb. .55 - —
t.c.l., works lb. .57 - —
125, 1,000 cps., ctns., c.l., works lb. .60 - —
t.c.l., works lb. 61 - .62
Chlorine, liquid, cyls., c.l. lb. .08¾- —
t.c.l., N Y stock points lb. .10¼- —
tanks, single units, works, frt. equald 100 lbs 2.70 - —
W of Rockies 100 lbs 2 82½- —
multiple units, 3 cars, works, frt.equald 100 lbs 3.20 - —
2 cars, same basis 100 lbs. 3.80 - —
1 car, same basis 100 lbs. 4.40 - —

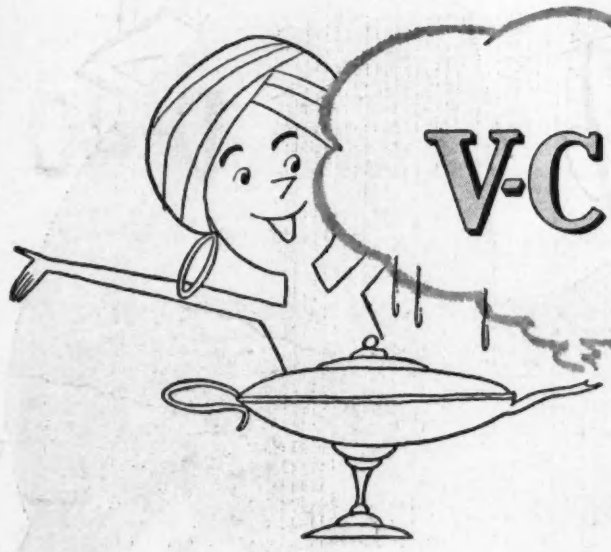
Chloroform, tech., dms., c.l., dlvd. E lb. .18 - .182
t.c.l., same basis lb. .192 - .20
tanks, same basis lb. .17 - .171
USP, dms lb. .30 - .35
Chloro(4)-2-Toluidine, bbls lb. 1.38 - —
Chlorophyll oil, soluble, 4%, not fixed, tins, pails, works lb. 4.25 - —
copper fixed, 6½%, tins, pails, works lb. 4.25 - —
sodium-copper, aqueous sol., 4%, dms., pails, works lb. 3.75 - —
8%, pails, dms., works lb 4.00 4.80
14%, dms., works lb. 8.90 - —
concentrated, dom., 50%, dms., works, basis 100% lb. 56.50 -60.00
75%, dms., works basis 100% lb. 60.00 - —
90%-100%, dms., works, basis 100% lb 60.00 -67.00
Imported, 60%, dms., basis 100% lb. 58.00 - —
75%, dms., basis 100% lb. 58.00 - —
90%, dms., basis 100% lb. 58.00 - —
Chloropicrin, com'l bots. cyls., 150 lbs. frt alld lb .50 —
100 lbs. same basis lb .95 —
25 lbs., same basis lb 1.22 —
Cholesterol, USP fib dms 100-lb lots lb. 6.85 - —
Choline bitartrate, fib. dms., frt. adjusted lb. 1.50 - 1.75
Chloride, fib, dms., frt. adjusted. lb. 1.50 - 1.75
Dihydrogen citrate, fib. dms., frt. adjusted lb. 1.50 - 1.75

Chromium acetate, powd. 72% Cr., bbls., works lb. No stocks.
solut., 7½% bbls. works lb. .08½- —
cbys. works lb. .10¼ —
8½%, bbls., works lb. .09 - —
cbys. works lb. .10¾- —
Fluoride, bbls., works lb. .51 - .52
Green (see Green, chromium oxide).
Oxide (see Green, chromium oxide).
Oleate, solid, bbls lb. .49 —
Trioxide NF bots lb. .82 .89
Yellow, (see Yellow, chrome).
Chrysarobin, USP, bots. lb. 6.50 8.00
Cinchona bark, NF, red, broken, bgs. lb. .28 - .30
yellow, broken, bgs. lb. .28 - .30
Cinchonidine, cryst., cns. 100-oz. lots. oz. .71 - .72
Sulphate, cns., 100-oz. lots oz. .37 - .40½
Cinchonine, cryst., cns., 100-oz. lots. oz. .52 - .57
Sulphate, NF, cns., 100-oz. lots oz. .27 - .30½
Cinchophen, NF, heavy density, dms., frt. adjusted lb. 3.70 - 4.05
standard density, dms., same basis lb. 3.50 - 3.85
Cinchophen-sodium, dms., frt. adjusted lb. 4.50 - 4.85
Cinnamic alcohol (see Alcohol cinnamic).
Aldehyde, NF, cns., dms lb. 1.00 - 1.30
Cinnamon, Ceylon, No. 2, bls. lb. .29 - .29½
"0000," bgs. lb. .41 - .41½
Citral bots., cns lb. 3.20 - 3.75
Citronellal, bots., dms lb. 1.50 - 2.00
Citronellol bots., dms lb. 1.75 - 2.20
Civet artificial, bots lb 13.75 15.00
natural, bots oz. 4.75 -10.00
Clay, ball, dom., crushed, bulk, Tennessee ton.10.00 -12.00
airfloated bgs. c.l. Tennessee ton.19.50 - —
purified, bgs. c.l., Tennessee ton.20.50 - —

Clay, ball, imported, lump, bulk, Atlantic port long ton.27.00 -30.00
airfloated, bgs., c.l., Atlantic port, long ton.43.00 -45.00
pulverized, bgs., t.c.l., all ports ton.55.00 - —
97%, 200 mesh, bgs., c.l., Georgia ton.54.00 -56.00
China, dom., dry-grd., air-float, 99%, 300 mesh bgs., c.l., works ton.11.50 -14.50
t.c.l., works ton.35.30 - —
bulk, c.l., works ton 8.50 -11.50
200 mesh, bgs., c.l., works ton.13.50 -17.00
imported, white, lump, bulk, c.l., ex dock, Phila., Portland, Me gross ton.20.00 -40.00
powd., bgs., c.l., ex dock net ton.50.00 —
t.c.l., ex whse net ton.60.00 -65.00
Clove, Ceylon, bls. lb. 1.50 - 1.52
Zanzibar, bls. lb. 1.54 - 1.55
Clover, tops, red, bgs. lb. .45 - .50
CMC, purified, high vis. (see Gum cellulose).
standard low vis., bgs., 23,000 lbs. or over, works, frt alld. lb. .60 - —
smaller lots, same basis lb. .62 - —
medium vis., bgs., 23,000 lbs. or over, works, frt. alld lb. .57 - —
smaller lots, same basis lb. .59 - —
technical high vis., 58% purity, bgs., 20,000 lbs. or more, dlvd. E., 100% basis lb. .56 - —
2,000 to 20,000 lbs., dlvd. E. lb. .58 - —
less than 2,000 lbs., dlvd. E. lb. .62 - —
low vis., 80% purity, bgs., or fib. dms., 23,000 lbs. dlvd. E., basis 100% lb. .41 - —
less than 23,000 lbs. dlvd. E., basis 100% lb. .43 - —
62% purity, bgs., or fib. dms., c.l., dlvd. E., basis 100%, lb. .41 - —
t.c.l., dlvd. E., basis 100%, lb. 43 - —
58% purity, bgs., c.l., dlvd. E. basis net weight lb. .34 - —
t.c.l., dlvd. E lb. .36 - —
47½% purity, c.l., dlvd., E., basis 100% lb. .41 - —
t.c.l., dlvd. E lb. .43 - —
36½% purity, bgs., c.l., dlvd. E., basis net weight lb. .13½- —
t.c.l. dlvd E lb .20 —

Prices for technical grades of CMC W. of the Rockies are 1c. per lb. less than dlvd. E. prices.

Coaltar, crude, resale dms., c.l., ex-whse gal. .275 - .3025
t.c.l., ex-whse gal. .285 - .3135
tanks, ex-whse gal. .154 - .165
refined, resale, dms., c.l., ex-whse gal. .2850- .3135
t.c.l., ex-whse gal. .2950- .3245
tanks, ex-whse gal. .1650- .1760
Cobalt acetate 23.7% bbls., dlvd lb. 1.14¾- —
Carbonate, 48%, powd., bgs., dlvd lb. 1.92¼- —
Chloride, 24.2% Co. kgs., dlvd., lb. 1.10½- —
Hydrate, 60-61% Co., bbls., dlvd. lb. 2.52 - —
Linoleate, fused, 8½% Co., dms. lb. .64½- —
liquid, 6% Co. dms lb. .53¼- —
Metal, 97.99% kgs., ex-whses lb. 2.40 - —
Naphthenate, liquid, 6% Co., dms., lb. .42¾- —
Nitrate, 20.1% Co., bbls., dlvd lb. .99¼- —
Oxide, black, 70-72% Co., kgs lb. 1.76 - —
Phosphate, powdered, 32.1% Co., kgs., dlvd lb. 1.57¾- —
Resinate, fused, 3% Co., dms lb. .27 - —
Sulphate, cryst., 21% Co., dms., dlvd lb. .21¾- —
monohydrated, 33% Co., dms. dlvd lb 1.28½- —
Cocaine, USP, cns., 100-oz. lots oz.15.00 - —
Hydrochloride, cns., 100-oz. lots oz.11.75 - —
Cochineal, USP gray, bgs lb. .88 - .90
Cocillana bark, bgs lb. .16 - .17
Cocoa butter, bgs. lb. .70 - —
Codeine, NF, cns. 100-oz. lots oz.13.25 - —
Hydrochloride, cns., 100-oz. lots oz.11.75 - —
Phosphate, USP, cns., 100-oz. lots. oz.10.25 - —
Sulphate, USP, cns. 100-oz. lots oz.10.75 - —
Codliver oil (see Oil codliver).
Cohosh root, black, bls. lb. .20 - .24
Blue, bls lb. .19 - .24
Colchicine, USP, bots., cns oz.65.00 -70.00
Colchicum root, bls lb. .45 - .60
Seed, bgs lb. .80 - 1.10
Collodion, USP, dms lb. .32½- —
flexible, USP, dms lb. .34 - —
Colocynth, pulp, bls lb. .25 - .30
Colombo root, bls., to arrive lb. .18 Nom.
Coltsfoot leaves, bgs lb. .25 .30
Condurango bark, bgs lb. .17 .18
Copaiba, balsam, cns., dms lb. .99 - 1.15
Copper acetate, bbls., c.l. works lb. .34¾- —
t.c.l., works lb. .35¾- —
Carbonate, 55%, bgs., works lb. .263 - .278
Chloride, anhyd., bbls., works lb. .41 —
crystals, bbls., works lb. .27½- —
Cyanide, tech., bbls., 1,000-lb. lots or more lb. .613 - —
less than 1,000-lb. lots lb. .633 - —
Gluconate, cns, dms lb. 3.00 3.24
Hydrate, dms, frt. alld E. Miss. lb. .40¼- .40¾
Metal, electrolytic lb. .29½- .30
Naphthenate, liquid, 8% Cu, dms., frt. alld lb. .22¾- —
Nitrate, tech. cryst. bbls., works, lb. .25¼- —
Oleate, solid, 9% Cu, dms., works lb. .45 - —
Oxide, black, bbls., works lb. .39 - .47½
red, com'l, bbls., works lb. .42½- .49½
Oxychloride, bls., frt. alld lb. .36¼- .46¾
Quinolinolate, fib, dms lb. 4.25 - 4.50
Resinate, precip., dms., frt. alld lb. .27½- —
Stearate, bgs., 5 ton to c.l., dlvd. lb. .37½- —
ton lots, dlvd lb. .38½- —
less ton lots, dlvd lb. .39½- —
Sulphate, cryst., 99%, bgs., c.l., works 100 lbs.10.35 - —
t.c.l. 100 lbs.10.60 -11.35
CP, gran., bbls., works lb. .1715- —
monohydrated, 35%, dms., c.l., works 100 lbs.17.10 -17.85
tribasic, dealers, bgs., c.l., works, frt. alld. 100 lbs.22.50 - —
t.c.l., works 100 lbs.23.00 -24.50
USP, gran., cryst., dms lb. .1715- —
Undecylenate, dms. lb. 2.90 3.00
Copperas, gran., bgs., c.l., works ton.34.50 - —
t.c.l., dlvd. Metro area 100 lbs. 3.35 - 4.25
bbls., c.l., works ton.40.00 - —
bulk, c.l., works ton.27.00 - —
Copra, Atlantic, Gulf ports, c.i.f. ton.210.00 - —
Pacific ports, c.i.f. ton.205.00 - —
Coriander seed, Argentine, bgs. lb. .13 Nom.
Czech, bgs lb. .07 Nom.
Moroccan, bgs lb. .05¾- .06
Roumanian, bgs. lb. .08 Nom.
Corn sugar tanners, chipped, paper bgs., c.l. 60,000 Lbs. min. 100 lbs. 7.31 - —
Syrup, 42°, dms., c.l. 100 lbs. 7.32 - —
t.c.l 100 lbs. 7.47 - —
Cornsilk, bls. lb. .14 - .15



works wonders with water

Whether you are manufacturing cleansers or water softeners, processing textiles or cheese, dispersing clay or treating boiler water, it will pay you to investigate the advantages of V-C Sodium Phosphates. Their water-softening ability, emulsification and dispersion properties and free-rinsing quality over a wide range of uses are outstanding. Examine the individual characteristics of each V-C Sodium Phosphate, outlined below, then write for full details.

V-C DSP (Disodium Phosphate) Anhydrous

Specifications: Minimum P_2O_5 content is 48.0%; less than 2% moisture. The pH of a 1% DSP solution is 9.0.

Physical Properties: Small white flakes, readily soluble giving a clear solution.

Characteristics: Mild alkalinity, emulsifies fats and oils, "deflocculates" or suspends solids, is a good buffer.

Advantages: Anhydrous DSP contains no water of crystallization as does the duohydrate DSP or crystalline (12 H_2O) DSP. Very economical, less alkaline than TSP, excellent water softener.

Uses: Boiler water treatment to control caustic embrittlement, textile cleaning, manual cleansers, plasticizer in the manufacture of processed cheese, and many other uses.

V-C TSP (Trisodium Phosphate)

Specifications: Surposses requirements of Federal Specification O-T-671a and ASTM Specification D538-44. P_2O_5 content is 18.5%. The pH of a 1% TSP solution is 11.8.

Physical Properties: Easily soluble white crystals.

Characteristics: Readily emulsifies fats and oils, softens water, "deflocculates" or suspends solids, rinses clear.

Advantages: Has higher alkalinity than DSP or polyphosphates. Good water softener. Economical.

Uses: For manufacture of cleansers, cleaning compounds, soaps and water softeners. Also for metal cleaning, boiler water treatment, textile processing, and other uses.

V-C STPP (Sodium Tripolyphosphate) Anhydrous

Specifications: Minimum P_2O_5 content is 57%; less than 1% moisture; calcium value, 10. The pH of a 1% STPP solution is 9.8.

Physical Properties: Anhydrous white powder (finer than 20-mesh), soluble in water.

Characteristics: Mild alkalinity, good sequestering agent, very effective peptizing agent, fairly stable.

Advantages: Greater sequestering power than TSPP. Cheaper than organic sequestrants. More stable than other polyphosphates except TSPP.

Uses: Builder for synthetic detergents and soaps, boiler feedwater treatment, industrial cleansers, textile processing, paper manufacturing, clay dispersing and many other uses.

V-C TSPP (Tetrasodium Pyrophosphate) Anhydrous

Specifications: Minimum P_2O_5 content is 53%; less than 1% moisture; 98.0% $Na_4P_2O_7$. The pH of a 1% solution is 10.2.

Physical Properties: Anhydrous white powder (finer than 20-mesh), soluble in water.

Characteristics: Exceptional water softening ability, high emulsification and dispersion properties, mild alkalinity, good buffering and rinsing properties, very stable.

Advantages: More stable than other polyphosphates. More economical than organic sequestrants and other polyphosphates.

Uses: Builder for synthetic detergents and soaps, mud treatment, water treatment, textile processing, industrial cleansers, cheese manufacture, cold water paints and other uses.

Elemental Phosphorus
Phosphoric Acids
Trisodium Phosphate
Disodium Phosphate-Anhydrous
Tetrasodium Pyrophosphate
Sodium Tripolyphosphate
Ferrophosphorus
Sodium Metasilicate
Tetraethyl Pyrophosphate
Alkyl Phosphites
Other Organic Compounds of Phosphorus

VC CHEMICALS

VIRGINIA-CAROLINA CHEMICAL CORPORATION • *Chemicals Division:* 401 East Main Street, Richmond 8, Virginia

Corrosive sublimate, NF, cryst., dms., 50-lb. lots or more lb. 3.68 - —
gran. powd., dms., 50-lb. lots or more lb. 3.53 - —
Cottonroot bark, bls lb. .24 - .25
Cottonseed hull ash, 32-36% potash, bgs., dlvd., unit-ton. 1.50 - —
Meal, 41% expeller, sacked, Memphis ton 62.00 -63.00
solvent, same basis ton 60.50 - —
Coumarin cryst., NF, cns lb 2.94 - 3.15
powd cans lb 3.20 - 3.25
Cramp, bark, NF, bls lb. .80 - .90
Craneshill root, bls lb. .40 - .41
Cream of tartar, NF, dom., gran. or powd., dms., c.l lb. .32 - —
bbls., 5,000 lbs. one shipment lb. .32½- —
smaller lots, bbls., kgs. lb. .33 - .36
imported, kgs lb. .25 - .26
Creosote carbonate, NF, bots., cbys. lb. 2.80 - 2.90
Coaltar, crude, tanks, works, frt. adjusted gal. .22 - —
solution, 80%, tanks, works, gal. .2068- —
refined, dms., c.l., works gal. .3850- —
l.c.l., same basis gal. .4510- —
tanks, same basis gal. .2970- —
Wood, beechwood, cbys., dms. lb. 1.35 - 1.40
hardwood, bots., cbys lb. 1.05 - 1.10
pinewood, dms gal. .31 - .32
Cresol, tech., 50% below 204°C., dry above 207°C., wide distillation range, non-ret. dms. c.l., frt equald lb. .133 - —
l.c.l., same basis lb. .136 - —
ret. dms., c.l., same basis lb. .1325- —
l.c.l., same basis lb. .1375- —
tanks, same basis lb. .120 - .1225
USP, non-ret., dms., c.l., same basis lb. .143 - —
l.c.l., same basis lb. .146 - —
ret. dms., c.l., same basis lb. .140 - —
l.c.l., same basis lb. .145 - —
tanks, same basis lb. .130 - —
Crotonaldehyde, 91-93%, l.c.l., works. lb. .24¼- .25
Cryolite, nat., industrial, bgs., c.l., works 100 lbs. 10.50 - —
l.c.l., works 100 lbs. 11.25 -11.50
insecticide, dealers, bgs., c.l., dlvd 100 lbs. 15.25 - —
l.c.l., dlvd. 100 lbs. 16.25 - —
Cube root, powd., 5% rotenone, bgs., works lb. .22 - —
Cubeb berries, XX, NF, bgs lb. .50 - .51
powd., cs. lb. .58 - .59
Culvers root, bbls lb. .60 - .61
Cumene, dms., c.l., works lb. .12 - —
l.c.l., works lb. .14 - —
tanks, works lb. .11 - —
Cumin seed, Iranian, bgs lb. .14½- .15
Moroccan, bgs. lb. .22 Nom.
Syrian, bgs. lb. .17 Nom.
Turkish, bgs. lb. .14¼- .14½
Cutch, extract, 35% tannin, bgs., ex dock, duty extra lb. .08¼- —
Cyanamide fertilizer mixing grades, 20.6% N, gran., bgs., Niagara Falls, Ont., contract ton 62.50 - —
pulv., 21% N, bgs., works unit-ton. 2.90 - —
Cyclohexane, tech., dms., c.l., dlvd. gal. .70 - —
l.c.l., dlvd gal. .72 - —
tanks, dlvd gal. .55 - —
Cyclohexanol, tech., dms., c.l., works, frt. alld., E lb. .24¾- .37¾
l.c.l., works, same basis lb. .25¼- .38¼
tanks, works, same basis lb. .23¼- .36¼
Cyclohexanone, tech. dms., c.l lb. .26½- .39
l.c.l. works lb. .27 - .31
tanks, works lb. .25 - .29
Cyclohexylamine dms., c.l., works. lb. .46½- —
l.c.l., works lb. .47½- —
tanks, works lb. .45 - —
Cyclopropane CP 2 lb. cycls. works. cyl. 48.00 - —
6 oz. cycls. works cyl. 12.00 - —
USP, hospitals, cyls., 40-gal. lots gal. .38 - —
100-gal. tots gal. .37 - —
200-gal. tots gal. .36 - —

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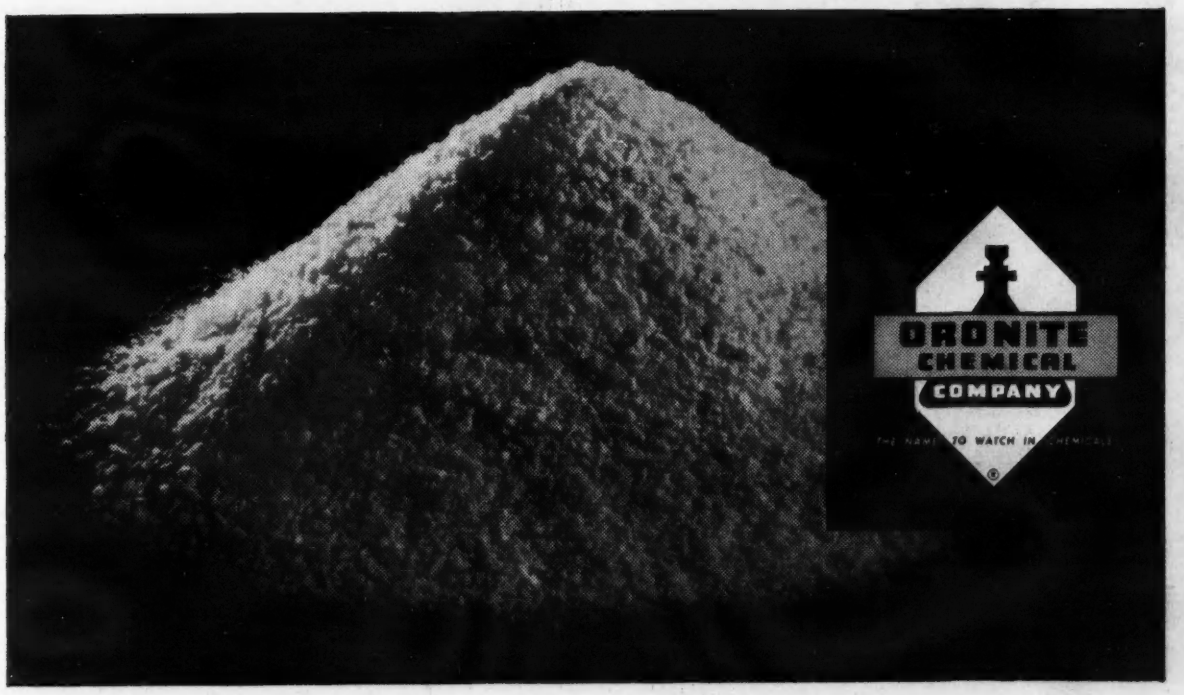
2, 4-D, bbls., c.l., works, frt. equald. lb. .51 - —
l.c.l., same basis lb. .56 - .63
Isopropyl ester, dms., c.l., works. lb. .55 - —
l.c.l., works lb. .60 - .67
Damiana leaves bls lb. .28 - .30
Dandelion root, bls lb. .35 - .40
DDD, tech., fine grd., fib. dms., c.l., works lb. .50 - —
l.c.l., works lb. .51 - —
DDT, fiber dms., c.l., works, frt. equald lb. .23 - .26
smaller lots, same basis lb. .24 - .29
Decanol, normal, tech., dms., c.l., dlvd lb. .35 - —
l.c.l., dlvd lb. .37 - —
tanks, dlvd. lb. .32½- —
Deertongue leaves, bls lb. .42 - .43
Defluorinated phosphate, 13% P paper bgs., works ton 49.25 - —
18½% P, paper bgs., works ton 62.75 -63.75
Rock, 14½% P, paper bgs., works ton 50.00 - —
Degras, common, bbls lb. .17 - .20
neutral, less 2% ffa, bbls lb. .30½- .33
over 2% ffa., bbls lb. .30 - .32
Derris root, 5% rotenone powd., bbls lb. .26 Nom.
Desoxyepnedrine hydrochloride, dextro, bots lb. 25.00 - —
dextro-laevo, bots. lb. 6.50 - —
Dextrin, corn, gum, paper bgs., c.l., N.Y. 100 lbs. 8.95 - —
l.c.l. 100 lbs. 9.10 - —
canary paper bgs, c.l. 100 lbs. 8.69 - —
l.c.l. 100 lbs. 8.84 - —
dark, paper bgs., c.l. 100 lbs. 8.79 - —
l.c.l. 100 lbs. 8.94 - —
white, paper bgs., c.l. 100 lbs. 8.53 - —
l.c.l. 100 lbs. 8.68 - —
Corn dextrin in cotton bgs. 25c. per 100 lbs. higher.
Potato, bgs. lb. .10½- .11
Dextrose USP dms lb. .17¾ —
Diacetone (see Alcohol diacetone)
Diacetyl, flavor grade, bots lb. 4.50 - 5.50
laboratory grade, bots 100 grams. 4.50 - —
tech., bots. works lb 3.00 - —
Diamyl ether (see Ether, amyl).
Dianisidin dms lb 1.90 - —
Diatomaceous earth, dom., bgs. c.l., Atlantic coast ton 52.00 -55.00
California ton 42.00 -45.00
l.c.l., ex whse ton 85.00 -90.00
purified, bgs., c.l., Atlantic coast ton 65.00 —
California ton 53.00 —
l.c.l., ex whse ton 95.00 -100.00
Atlantic coast ton 95.00 -100.00
imported, Mexican, white, bgs., c.l., Atlantic coast lb. .03 - —
l.c.l., Atlantic coast lb .06 - —
Dibenzyl sebacate, CP, dms., c.l., works lb. .92 - —
l.c.l. works lb. .93¾- —
tanks, works lb. .91 - —
Dibutyl phthalate, dms., c.l., dlvd., E lb. .35¾- —
l.c.l., same basis lb. .36¾- —
tanks, same basis lb. .34 - .34½
Dibutyl sebacate, dms., works. lb. .81¾- .82¾
l.c.l., works lb. .82¼- .83¾
tanks, works lb. .80 - .81
Tartarate, dms., works, frt. alld. lb. .71 - —
Dibutylamine dms, c.l., dlvd lb. .54¾- —
l.c.l., same basis lb. .55¾- —
tanks, same basis lb. .53 - —
Dicapryl phthalate, dms., c.l., dlvd. lb. .36¾- .38¾
l.c.l. dlvd lb. .37 - .39¾
tanks, dlvd lb. .35 - .37
Sebacate, dms., c.l., works lb. .68¼- —
l.c.l., works lb. .68¾- —
tanks, works lb. .66½- —
Dichloroaniln dms., works lb .75 - .83
Dichlorodiphenyltrichloroethane (see DDT).
Dichloroethyl ether (see Ether dichloroethyl).
Dichloropentanes, dms., c.l., works. lb. .05 - —
l.c.l., works lb. .05¾- —
tanks, works lb. .04¼- —
Dicyclohexylamine dms, c.l., works. lb. .51 - —
l.c.l., works lb. .51¾- —
tanks, works lb. .49¾- —
Dicyclohexylphthalate, fib. dms., c.l., frt. alld. lb. .60 - —
l.c.l., same basis lb. .61 - —
Dieldrin, dms., frt. alld lb 2.00 - —
l.c.l. frt. alld lb. 2.40 - —
Diethanolamine dms., c.l., dlvd E. lb. .29¼- —
l.c.l. same basis lb. .30¼- —
tanks, same basis lb. .27½ —
Diethyl carbonate, dms., c.l., frt. alld lb. 46¾ —
l.c.l., same basis lb. 47¾ —
tanks, same basis lb. .45 - —
Maleate, dms., c.l., dlvd lb. .50 - —
l.c.l. dlvd lb. .48¼- —
tanks, dlvd lb. .48½- —

Corrosive Sublimate, NF—Di-Isobutylene

Diethyl oxalate, dms., c.l., frt. alld. lb. .41¾- —
l.c.l. same basis lb. .42¾- —
tanks, same basis lb. .40 - —
Phthalate, dms., c.l., dlvd lb. .26¾- —
l.c.l., dlvd. lb. .27¾- —
tanks, dlvd lb. .25 - —
Sulphate dms., c.l., works lb. .18¾- —
l.c.l. works lb. .19¼- —
tanks, works lb. .17 - —
Diethylamine, dms., c.l., dlvd. E lb. .50¼- —
l.c.l., same basis lb. .51¼- —
tanks, same basis lb. .48½- —
Diethylanilin dms lb. .48 - —
Di-2-ethylhexyl adipate (see Dioctyl adipate).
Di-2-ethylhexyl phthalate (see Dioctyl phthalate).
Diethyleneglycol, dms, c.l., dlvd. E. lb. .20¼- —
l.c.l. same basis lb. .21¼- —
tanks, same basis lb. .18½- —
Boriborate, dms., l.c.l lb. .30½- —
Diethylether, dms, c.l., works lb. .46½- —
l.c.l., works lb. .47 - —
Monobutylether, dms., c.l., works. lb. .28¾- —
l.c.l. works lb. .29¼- —
tanks, works lb. .27 - —
Monobutylether acetate dms., c.l., works lb. .30 - —
l.c.l., works lb. .30¼- —
Monoethylether, dms., c.l., dlvd. lb. .20¾- —
l.c.l., dlvd lb. .21½- —
tanks, dlvd lb. .19½- —
Monoethylether acetate, dms., c.l., works lb. .26¾- —
l.c.l., works lb. .27¼- —
Monomethylether, dms., c.l., works lb. .24¾- —
l.c.l. works lb. .25¼- —
tanks, works lb. .23½- —
Diethylenetriamine dms., c.l., dlvd E. lb. .43 - —
l.c.l., same basis lb. .44 - —
tanks, same basis lb. .41½- —
Diethylethanolamine, dms., c.l., dlvd lb. .67½- —
l.c.l., same basis lb. .68½- —
tanks, same basis lb. 65¾- —
Diethylstilbestrol, USP, bots., 10-kilo lots kilo. 110.00 -120.00
1 kilo lot kilo. 125.00 -140.00
Digitalis leaves, USP, dom., dms. lb. 1.05 - 1.10
Digitoxin, USP, bots gram. 6.50 - 7.00
Diglycol laurate, dms lb. .31¾- .42
Oleate, dms lb. .28½- .29½
Stearate, dms lb. .25 - .26½
Dihexyl sebacate, dms., c.l., works. lb. .76½- —
l.c.l. works lb. .77½- —
tanks, works lb. .74¾- —
Dihydrazine sulphate dms, works lb. 1.10 1.25
Dihydrostreptomycin, either hydrochloride or sulphate, bulk, gram. .17 - —
Dihydroxydichlorodiphenylmethane, pure dms lb 2.80 3.00
tech., dms. lb. 1.04 - 1.14
Di-isobutyl ketone, dms., c.l., dlvd. lb. .15¼- —
l.c.l., dvid lb. .16¼- —
tanks, dlvd lb. .13½- —
Phthalate, dms c.l., dlvd. E lb. .34¾- —
l.c.l dlvd E lb. .35¾- —
tanks, dlvd., E lb. .33 - —
Di-isobutylene, dms., c.l., works lb. .06½- —
l.c.l., works lb. .10 - —
tanks, works lb. .07½- —

Now! An even BETTER D-40

by the world's largest producer of synthetic detergent raw materials



Oronite, a pioneer and major producer of detergent raw materials, again leads the way with superior products. Compare improved D-40 for characteristics and performance—you'll agree there just isn't a better all-around product for repackaging or compounding. Our higher active product D-60 is also better than ever.

Compounders of cleansers, bubble bath, laundry, dishwashing and car washing products will find D-40 produces better quality, more competitive branded products. Write the nearest Oronite office for complete information and product samples.

BETTER **Odor**...Extremely bland—almost odorless BETTER **Color**...A whiter white color

BETTER **Caking Resistance**...Flows more freely

BETTER **Foam Stability**...Greater resistance to de-foaming in presence of grease

BETTER **Detergency**...improved action on cotton and wool

D-40 is available in 3 particle sizes: D-40SF (Flakes) D-40 (Granules) D-40FG (Powder)

ORONITE CHEMICAL COMPANY

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30 ROCKEFELLER PLAZA, NEW YORK 20, N.Y. 600 S. MICHIGAN AVENUE, CHICAGO 5, ILL.
MERCANTILE SECURITIES BLDG., DALLAS 1, TEXAS

Di-iso-octyl Phthalate—Dyes, Coaltar, General Use, No. 1085

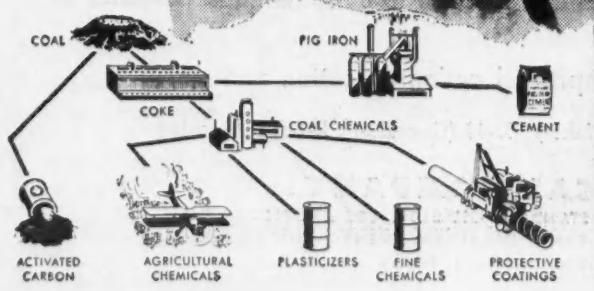
Di-iso-octyl phthalate, dms., c.l., dlvd	lb.	.38¾-	—
l.c.l., same basis	lb.	.39¾-	—
tanks, same basis	lb.	.37 -	—
Di-isopropylamine, dms., c.l., dlvd. E. of Rockies	lb.	.49¾-	—
l.c.l., same basis	lb.	.50¾-	—
tanks, same basis	lb.	.49 -	—
Dilliseed, dewhiskered, bgs	lb.	.12 -	.12½
natural, bgs	lb.	.11 -	.11½
Dimethyl anthranilate, cns	lb.	5.25 -	5.75
Chloroacetal, dms., c.l., works	lb.	.53	—
l.c.l. works	lb.	.55 -	—
tanks works	lb.	.51	—
Hydroquinone, dms.	lb.	2.25 -	2.75
Phthalate, dms., c.l., dlvd	lb.	.29¼-	—
l.c.l., dlvd	lb.	.30¼-	—
tanks, dlvd	lb.	.27½-	—
Sebacate, dms., c.l., works	lb	1.31¾-	—
l.c.l., works	lb.	1.32¾-	—
tanks, works	lb.	1.30 -	—
Sulphate, 55 gal. ret. dms., c.l., works	lb	18 -	—
l.c.l works	lb.	.16 -	—
10-gal. ret. dms., works	lb.	.16½-	—
Dimethylamine 33-40%, dms., c.l., works, basis 100%	lb.	.37 -	.38
l.c.l., works, basis 100%	lb.	.37½-	.38¼
tanks, works, basis 100%	lb.	.33 -	—
Dimethylaniliu, dms., c.l., frt. alld.	lb.	.26 -	—
l.c.l. frt. alld	lb.	.27 -	—
tanks, frt. allu	lb.	.25 -	—
Dimethylethanolamine, anhydrous, dms., c.l., dlvd	lb	1.43 -	—
l.c.l., dlvd	lb	1.45 -	—
tanks, dlvd	lb	1.40 -	—
70%, dms., c.l., dlvd., basis 100%	lb.	.54 -	—
l.c.l. dlvd.	lb.	.55 -	—
tanks, dlvd.	lb.	.52¼-	—
Dimethylformamide, dms., works	lb.	.37 -	—
tanks, works	lb.	.34 -	—
Dinitroaniliu, dms., frt. equald	lb.	.57 -	—
Dinitrobenzene, crude, dms	lb.	.20 -	—
purified, dms.	lb.	.22 -	—
Dinitrochlorobenzene, dms., c.l., frt. alld. E	lb.	.15¼-	—
l.c.l., frt. alld. E	lb.	.15¾-	—
tanks, frt. allu. E	lb.	.15 -	—
Dinitrophenol, bbls	lb.	.34 -	—
Dinitrotoluene oily, dms.	lb.	.10 -	—
refined, dms.	lb.	.21 -	—
Dioctyl adipate, dms., c.l., works	lb.	.44¾-	.47¾
l.c.l., works	lb.	.45¾-	.47¾
tanks, works	lb.	.43 -	.46
Phthalate, dms., c.l., frt. allu	lb.	.38¾-	.41¾
l.c.l. frt. allu	lb.	.39¾-	.42¾
tanks, frt. allu	lb.	.37 -	.40
Diorthotolylguanidin, dms. ton lots, dlvd	lb.	.54 -	—
smaller lots, dlvd	lb.	.55 -	—
Dioxane, dms., c.l., works	lb.	.29¾-	—
l.c.l., same basis	lb.	.29¼-	—
tanks, same basis	lb.	.27 -	—
Dip oil (see Tar acid oil).			
Dipentaerythritol, bgs., c.l., works	lb.	.34 -	—
l.c.l., works	lb.	.37 -	—
Dipentene, dest-dist., dms., extra, c.l., works	gal.	.49 -	—
l.c.l., works	gal.	.50 -	—
ex-whse.	gal.	.68 -	—
steam-dist., dms., c.l., works, South.	gal.	.63 -	.72
dlvd., N. Y.	gal.	.82 -	.86
tanks, works, South	gal.	.50 -	.60
Diphenyl, bbls, c.l., works	lb.	.15	—
l.c.l., works	lb.	.16 -	—
Diphenyl in bags ¼c. lower.			
Oxide, perfume grade, cns	lb.	.54 -	.61
Phthalate, dms., c.l., works	lb	.51¾-	—
l.c.l., same basis	lb	.53¾-	—
Diphenylamine, refined, gran., bbls., c.l., works	lb.	.28 -	—
l.c.l., works	lb.	.30 -	—
tanks, works	lb.	.25 -	—
tech., tanks, works	lb.	.24 -	—
Diphenylguanidin, dms., ton lots	lb.	.44½-	—
smaller lots	lb.	.45½-	—
Diphenylhydantoin-sodium, USP, dms.	lb.	5.30	5.60
Dipropyleneglycol, dms., c.l., frt. allu	lb.	.16¾-	.17
l.c.l., same basis	lb.	.17¾-	.18
tanks, same basis	lb.	.15 -	—
Methylether, dms., c.l., dlvd. E	lb.	.20¾-	—
l.c.l., same basis	lb.	.21¾-	—
tanks, same basis	lb.	.19¼-	—
Di-secondary-amylphenol, dms., c.l., works	lb.	.30¼-	—
l.c.l., works	lb.	.33¼-	—
tanks, works	lb.	.28¼-	—
Di-tertiary-amylphenol, dms., c.l., works	lb.	.30¼-	—
l.c.l., works	lb.	.33¼-	—
tanks, works	lb.	.28¼-	—
Di-tertiary butylmetacresol, dms., c.l., works	lb.	.31 -	—
l.c.l., works	lb.	.33 -	—
tanks, works	lb.	.30 -	—
Di-tertiary butylparacresol, dms., c.l., works	lb.	.91 -	—
l.c.l., works	lb.	.95 -	—
Divi-divi, 45% tannin bgs., bls., c.l., U.S. ports, exdock	ton.	70.00	72.00
Divinylbenzene, 20-25%, dms., c.l., works	lb.	.20 -	—
l.c.l., works	lb.	.21 -	—
tanks, works	lb.	.19 -	—
40-50%, basis 100%, dms., c.l., works	lb.	1.00 -	—
l.c.l., works	lb.	1.15 -	—
Dodecylbenzene, dms., c.l., frt. equald	lb.	.14½-	—
l.c.l., same basis	lb.	.15½-	—
tanks, same basis	lb.	.12½-	—
Doggrass root, dom., cut, bls	lb.	.26 -	.28
imp., cut, bls	lb.	.26 -	.28
Dogwood bark, Jamaica, bls	lb.	.11 -	.13
Dragon's blood, mass, cs	lb.	1.25 -	1.30
reeds, cs.	lb.	1.40 -	1.45
Dyes, coaltar, certified colors for food drugs and cosmetics, 5-lb. and 1-lb. lots dlvd:—			
Blue, FD&C, No. 1, cns	lb.	17.00	17.60
No. 2, cns	lb.	17.00	17.60
Green, FD&C, No. 1, cns	lb.	17.00	17.60
No. 2, cns	lb.	22.20	22.85
No. 3, cns	lb.	35.25	35.90
Orange, FD&C, No. 1, cns	lb.	3.65	3.75
No. 2, cns	lb.	4.65	4.75
Red, FD&C, No. 1, cns	lb.	7.55	7.85
No. 2, cns	lb.	4.00	4.10
No. 3, cns	lb.	22.20	22.85
No. 4, cns	lb.	7.20	7.50
No. 32, cns	lb.	5.30	5.40
Violet, FD&C, No. 1, cns	lb.	17.00	17.60
Yellow, FD&C, No. 1, cns	lb.	10.50	11.05
No. 3, cns	lb.	3.30	3.40
No. 4, cns	lb.	3.30	3.40
No. 5, cns	lb.	4.00	4.10
No. 6, cns	lb	4.00	4.10
Dyes, coaltar, certified colors for drugs and cosmetics, 1-lb. lots, works, 25-50 lb. lots, dlvd.:—			
Black, D&C, No. 1, cns	lb.	10.95	—
Blue, D&C, No. 9, cns	lb.	16.10	—
Brown, D&C, No. 1, cns	lb.	16.10	—
Green, D&C, No. 5, cns	lb.	16.10	—
No. 6, cns	lb.	16.10	—
No. 7 cns	lb.	14.80	—
Orange, D&C, No. 3, cns	lb.	10.95	—
No. 4, cns	lb.	20.05	—
No. 5, cns	lb.	5.70	—
No. 10, cns	lb.	20.70	—
Red, D&C, No. 8, cns	lb.	2.85	—
No. 9, cns	lb.	2.85	—
No. 10 cns	lb.	2.30	—
No. 11, cns	lb.	1.85	—
No. 12, cns	lb.	2.65	—
No. 17, cns	lb.	10.95	—
No. 18, cns	lb.	24.00	—
No. 19, cns	lb.	15.45	—
No. 21, cns	lb.	3.60	—
No. 22, cns	lb.	10.95	—
No. 28, cns	lb.	24.65	—
No. 33, cns	lb.	17.45	—
Violet, D&C, No. 2, cns	lb.	16.10	—
Yellow, D&C, No. 7, cns	lb.	10.95	—
No. 10, cns	lb	13.50	—
No. 11, cns	lb.	13.50	—
Dyes, coaltar, certified colors for drugs and cosmetics, external use, 1-lb lots, works, 25-50 lb. lots dlvd:—			
Blue, Ext., D&C, No. 1, cns	lb.	16.10	—
Green, Ext., D&C, No. 1, cns	lb.	16.10	—
Red, Ext., D&C, No. 1, cns	lb.	13.50	—
Yellow, Ext., D&C, No. 1, cns	lb.	10.95	—
Dyes, coaltar, for general use in cloth dyeing (numbers are those of the Colour Index scale or prototype), contract, dlvd., No.			
20 Chrysoidine Y	lb.	.74	—
27 Fast light orange 2G	lb.	.90	—
31 Phloxine 2G	lb.	.64	—
36 Alizarine yellow 2G	lb.	.83	—
40 Orange B extra, conc.	lb.	1.06	—
57 Fuchsine 6B	lb.	1.08	—
79 Scarlet 2R	lb.	.81	—
151 Orange AD	lb.	.55	—
161 Orange RR	lb.	.66	—
176 Fast red A, conc.	lb.	.90	—
179 Azo rubine XX, conc.	lb.	1.04	—
180 Blue F4B	lb.	.92	—
185 Brilliant scarlet 3RN, conc.	lb.	.93	—
202 Chrome blue black, conc	lb.	.68	—
203 Chrome black T	lb.	.78	—
208 Fast blue SR	lb.	.91	—
216 Chrome red B	lb.	.84	—
234 Brown Y	lb.	.89	—
246 Blue black, extra, conc	lb.	.86	—
275 Milling red 3R, conc.	lb.	2.03	—
289 Navy blue 3R, conc., 125%	lb.	1.08	—
299 Black F, conc	lb.	1.40	—
304 Neutral black 2B, conc., 200%	lb.	2.01	—
326 Fast scarlet 4BNC	lb.	1.64	—
332 Bismarck brown RX, conc.	lb.	.95	—
365 Brilliant yellow, conc.	lb.	2.34	—
382 Scarlet B	lb.	1.82	—
401 Diazo black, BHD	lb.	.69	—
406 Blue 2B extra, conc.	lb.	1.07	—
419 Diamine fast red FC	lb.	1.12	—
420 Diamine brown M	lb.	.98	—
448 Benzo purpurine 4B, conc.	lb.	1.18	—
518 Diamine sky blue FF, extra, conc.	lb.	1.50	—
561 Trisulphon brown BCW, conc	lb.	2.03	—
581 Direct black E double	lb.	.69	—
593 Green BY, conc	lb.	.72	—
596 Yellow Brown K extra	lb.	.83	—
620 Siiibene yellow G, conc	lb.	.92	—
639 Xylene light yellow GX	lb.	1.79	—
640 Tartrazine, conc	lb.	1.61	—
655 Auramine, conc.	lb.	2.04	—
657 Victoria Green sml. cryst.	lb.	1.70	—
662 Brilliant green cryst	lb.	2.79	—
667 Brilliant milling green B, conc	lb.	3.68	—
671 Brilliant Blue, E	lb.	1.70	—
681 Crystal violet powder	lb.	2.15	—
698 Formyl violet S4B	lb.	1.58	—
720 Chrome blue, BBG	lb.	1.88	—
729 Victoria blue, B, conc	lb.	2.79	—
749 Rhodamine B, extra	lb.	4.33	—
814 Fast yellow, NNL, conc., 175%	lb.	3.11	—
841 Safranine T, extra, conc., 125%	lb.	2.90	—
865 Nigrosine, WSJ	lb.	.75	—
922 Methylene blue, ZX	lb.	1.55	—
978 Sulphogene carbon, GXCF, grains	lb.	.32	—
1034 Alizarin, red S, enc	lb.	2.59	—
1054 Anthraquinone, blue, B	lb.	2.91	—
1078 Anthraquinone, green, G	lb.	2.72	—
1085 Alizarin, blue, black, B	lb.	2.33	—
1096 Indanthrene golden orange, GFD, single paste	lb.	2.00	—
1099 Indanthrene, dark blue BO, single paste	lb.	1.75	—
1101 Brilliant green N, double paste	lb.	2.36	—
1106 Indanthrene blue RS, double paste	lb.	2.57	—
1113 Indanthrene blue BLNS double paste	lb.	1.96	—
1150 Indanthrene olive R, single paste	lb.	1.10	—
1151 Indanthrene brown R, single paste	lb.	1.68	—
1171 Indigo, synthetic, 20% paste, double paste	lb.	.28 / 2.35	—
1217 Sulphanthrene orange R, single paste	lb.	1.65	—
p-4 Acid anthracene, brown, PGN,	lb.	2.30	—
p-14 Anthracene chromate brown, 2B	lb.	1.31	—
p-24 Benzo fast black L	lb.	1.45	—
p-80 Diazo brilliant scarlet ROA.	lb.	2.79	—
p-202 Diazo black VJ, conc	lb.	1.58	—
p-244 Celliton scarlet B	lb.	1.31	—
p-313 Naphthol AS-SW	lb.	2.42	—
1078 Anthraquinone green G	lb	2.72	—
1085 Alizarin blue black B	lb	2.33	—

Main Line to New Chemical Wonderlands

Twenty-four hours a day, these giant steel pipes carry a rich cargo of chemical-laden gases from coke ovens to chemical plants of the Pittsburgh Coke & Chemical Company. Final destination? Your new crease-proof summer suit, the drug that takes the sneeze out of your hay fever, the herbicide that kills your weeds but not your grass . . . and perhaps 100,000 other coal chemical-made products that are, or soon will be, an important part of your life.

But there's an important "line" going the *other* way from our coke ovens, too. It carries coke to our blast furnaces for pig iron production. And slag from these furnaces is made into cement for highways and homes.

Diversified production? Yes, but completely integrated, too. For the operations of Pittsburgh's ten divisions are welded into a single, *basic* production pattern. The manufacturing efficiencies and coal-to-product quality control that result have made the Pittsburgh Coke & Chemical Company trademark a hallmark of dependability.



PITTSBURGH
COKE & CHEMICAL CO.
Grant Building • Pittsburgh 19, Pa.

facts you may want to know about—

Potassium Bicarbonate

Foremost producer

Mallinckrodt began the manufacture of potassium bicarbonate in 1940. Prior to that time there had been no significant domestic production and pharmaceutical manufacturers were dependent on imports for their supplies of this important alkali. Mallinckrodt is now believed to be the major manufacturer of medicinal grades.

Capacity to supply national needs

Modern facilities, processing methods utilizing domestic raw materials, and adequate capacity have enabled Mallinckrodt to supply the nation's entire requirements for fine chemical grades of potassium bicarbonate.

Outstanding purity

In a line of fine chemicals for the pharmaceutical industry where exceptional purity is the rule, Mallinckrodt potassium bicarbonate is outstanding in chemical purity, uniformity and freedom from foreign matter.

Forms Available

Mallinckrodt potassium bicarbonate fully meets the requirements of the U.S.P. and is supplied in two forms:

Potassium Bicarbonate USP XIV Granulated (95% through 30 mesh sieve, 80% on 80 mesh sieve; always free-flowing)

Potassium Bicarbonate USP XIV Powdered (100% through 60 mesh sieve, not less than 95% through 80 mesh sieve)

Special forms can be produced to meet unusual requirements of quantity buyers. Mallinckrodt Potassium Bicarbonate USP XIV is supplied in 250 lb. leverpak drums, 100 lb. and 25 lb. fibre drums as well as subdivisional size containers.

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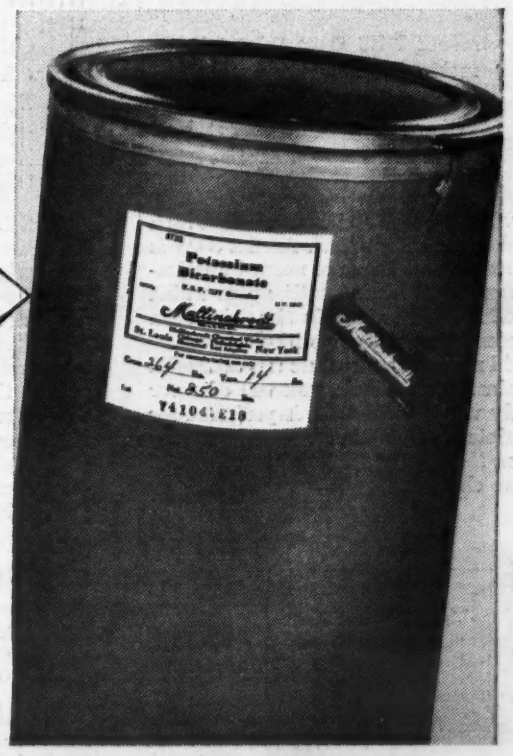


Dyes, Coaltar, for Stains, Oil-Soluble—Fluorspar, Metallurgical Grade, Lump

Dyes, coaltar, for stains, oil-soluble, 100-lb. dms., sellers' works.
- Black blue No. 550 ..... lb. .81 - —
- Jet, No. 551 ..... lb. .89 - —
- Brown R, conc. ..... lb. 1.72 - —
- Orange R, brilliant ..... lb. .90 - —
- Red 4 B, conc. ..... lb. 1.37 - —
- Yellow C ..... lb. 1.18 - —
- FN, conc. ..... lb. 1.22 - —

Dyes, coaltar for stains, spirit-soluble, 100-lb dms. sellers works:—
- Auramine O ..... lb 1.85 - —
- Black, basic blue ..... lb 1.21 - —
- Jet ..... lb 1.21 - —
- Blue, methylene, 2 B, conc lb. 1.71 - —
- Brown Bismarck R, conc lb .86 - —
- Chrysodine, R, extra ..... lb. .60 - —
- Y extra ..... lb .64 - —
- Fuchsine, conc ..... lb 3.03 - —
- Green, malachite, conc ..... lb 2.10 - —
- Rhodamine, B ..... lb. 4.33 - —
- Safranine Y conc ..... lb 2.90 - —
- Violet, methyl B ..... lb 1.10 - —

Dyes, coaltar for stains, water soluble, 100-lb dms. sellers' works:
- Azo rubine R extra conc lb 1.04 - —
- Black, acid blue B, extra lb .86 - —
- Fast light, 3 G, extra ..... lb. 2.04 - —
- Methanil conc ..... lb .91 - —
- Orange Acid Y, conc ..... lb .47 - —
- Scarlet croceine, MOO ..... lb 1.45 - —
- Yellow azo, conc ..... lb. .90 - —

Oil-soluble, spirit-soluble, water-soluble dyes in kegs, 3c higher; tins, 10c higher.

E

- Echinacea root, bls ..... lb. .90 Nom.

Egg albumen (see Albumen).
- Yolk, dried, dom., bbls ..... lb. 1.18 - 1.20
- tanners bbls ..... lb. .06 - .06½

- Elder flowers, bright, bls ..... lb. .30 - .40
- Elecampane root, bls ..... lb. .23 - .25
- Elm bark, grinding, bls ..... lb .28 - .29
- powd., bbls., bxs ..... lb. .46 - .47
- select, bundles ..... lb .60 - .61
- Emetine hydrochloride USP bots. oz.35.00 - 42.85

Ephedrine synthetic USP anhydrous bots., 100-oz lots oz. .98 - 1.00
- hydrous, bots., 100-oz lots oz. .92 - —
- Hydrochloride, tin 100-oz lots oz. .75 - —
- Sulphate cryst., tins, 100-oz lots oz. .72 - —
- powd., tins, 100-oz lots oz. .73 - —

Epichlorohydrin dms, c.l. works lb. .38¾ - —
- l.c.l. works lb. .39½ - —
- tanks works lb. .37 - —

Epinephrine, synth, USP, bots, 100 grams gram. .45 - .85

Epsom salt, tech, bgs., c.l. works, 100 lbs 2.15 - —
- l.c.l., works ..... 100 lbs. 2.90 - 3.15

USP, cryst., bgs., c.l., works, 100 lbs. 2.35 - —
- l.c.l., 5,000 lbs., 1 withdrawal 100 lbs 3.10 - —
- smaller lots ... 100 lbs 3.35 - —

Ergosterol, unirradiated, cryst kilo 50.00 - —
Ergot, NF, dms., tin-lined ..... lb. 2.75 - 3.10

Eserine, bots ..... oz. 45.00 - 50.00
Salicylate USP, bots ..... oz. 32.50 - 34.00
Sulphate, bots ..... oz. 34.50 - 35.50

Ether acetate (see Ethyl acetate).
- Butyl, dms., c.l., works ..... lb. .31½ - —
- l.c.l., works ..... lb. .32 - —
- tanks, works ..... lb. .30 - —
- Butyric (see Ethyl butyrate).
- Dichloroethyl refd., dlvd. dms., c.l., E lb. .14 - .14½
- l.c.l., same basis ..... lb. .15 - .16
- tanks, same basis ..... lb. .13 - —
- technical, dms., c.l., works lb. .13 - —
- l.c.l., works ..... lb. .13½ - —
- tanks, works ..... lb. .12 - —

Ethyl, absolute, ACS, dms ... lb. .37 - —
- anesthesia, USP, hospitals, 1-lb. cns lb. .89 - —
- ½-lb cns ..... lb. .97 - —
- ¼ lb cns ..... lb. 1.05 - —
- solvent, USP, dms., c.l., dlvd ... lb. .13¾ - —
- l.c.l., same basis ..... lb. .16¾ - —
- tanks, same basis ..... lb. .13¾ - —
- synthetic, dms., c.l., dlvd. E lb. .1375 - —
- l.c.l., same basis ..... lb. .1675 - —
- tanks, same basis ..... lb. .1375 - —

Isopropyl, dms., c.l., dlvd ..... lb. .0675 - .0850
- l.c.l., dlvd. ..... lb. .0750 - .0936
- tanks, dlvd ..... lb. .05 - .075

Nitrous, conc., bots., 100-lb. lots lb. 1.28 - 1.35

Vinyl, USP, anesthesia, bots, 50 cc, hospitals bot. 1.12 - —
- 75 cc, hospitals ..... bot. 1.56 - —

Ethyl acetate, natural, fermentation 85-88%, dms., c.l., frt. alld. lb. .12¾ - —
- l.c.l., frt. alld ..... lb. .13¾ - —
- tanks, frt. alld ..... lb. .11 - —

95-98%, dms., c.l., frt. alld. lb. .13 - —
- l.c.l., frt. alld ..... lb. .13¾ - —
- tanks, frt. alld ..... lb. .11¼ - —

Ethyl acetate, 99%, dms., c.l., frt. alld. lb. .13¼ - —
- l.c.l., frt. alld ..... lb. .14 - —
- tanks, frt alld ..... lb. .11½ - —
- NF, dms., frt, alld ..... lb. .24 - .25
- synthetic, 85-90%, dms., c.l., dlvd. lb. .12¾ - —
- l.c.l., dlvd ..... lb. .13½ - —
- tanks, dlvd ..... lb. .11 - —

95-98%, dms., c.l., dlvd ..... lb. .13 - —
- l.c.l., dlvd ..... lb. .13¾ - —
- tanks, dlvd ..... lb. .11¼ - —

99%, dms., c.l., dlvd ..... lb. .13¼ - —
- l.c.l., dlvd ..... lb. .14 - —
- tanks dlvd ..... lb. .11½ - —

Acetoacetate, dms., c.l., dlvd ... lb. .55 - —
- l.c.l., dlvd ..... lb. .56½ - —

Acrylate, dms., c.l., and truck load, works .. lb. .45½ - —
- less than truckload, works .. lb. .46 - —
- tanks, works ..... lb. .42¾ - —
- Aminobenzoate, USP (see Benzocaine)
- Benzoate cns., dms ..... lb. .74 - 90
- Bromide, tech., 98%, dms ..... lb. .43 - .47
- Butyrate, works ..... lb. .80 - 1.02
- Carbamate (see Urethane).
- Chloride tech, dms, c.l., works. lb. .18 - .20
- cyls., c.l., same basis ..... lb. .20 - .22
- tanks same basis ..... lb. .10 - —
- USP bbls, cyls ..... lb .22 - .24

Cinnamate, cns ..... lb. 2.28 - 2.53
Formate, dms ..... lb .60 —
Gallate, dms., 100 to 2,000-lb. lots lb 3.90 - 4.40
Iodide, cbys., works ..... lb. 3.30 - —
Lactate, dms., works ..... lb. .47½ - —
Methacrylate dms., c.l., and truckload works lb. .50 - —
- less than truckload works lb. .50½ - —
- Nitrite (see Ether nitrous).
- Oenanthate, dms ..... lb. 1.00 - 1.50
- Oleate, dms., l.c.l., works ..... lb. No prices.
- Oxalate (see Diethyl oxalate).
- Silicate, dist. (see Tetraethyl orthosilicate).
- 40% available SiO, dms. works, lb. .60½ - —
- Ethylalphanapnthylamine (see Monoethylalphanaphthylamine).
- Ethylamine (see Mono-, Di-, or Tri-)
- Ethylaniline (see Monoethylaniline)
- Ethylbenzene, 99%, dms., c.l ..... lb. .14 - .20¼
- l.c.l. ..... lb. .15 - .21¼
- tanks ..... lb. .13 - .18¼
- Ethylbutylketone, dms., c.l., works. lb. .35½ - —
- l.c.l., works ..... lb. .36 - —
- tanks ..... lb. .34 - —
- Ethylcellulose, vis. 7 cps, bgs., 5,000 lb. lots or more, works lb. .70 - —
- smaller lots, works lb. .72 - .80
- vis. 10, 20, 50, 100, 150 cps, bgs., 5,000-lb. lots or more, works lb. .65 - —
- smaller lots ..... lb. .67 - .75
- Ethylene dichloride, dms., c.l., dlvd. E lb. .11¾ - —
- l.c.l., same basis ..... lb. .12¾ - —
- tanks, same basis ..... lb. .10 - —
- Ethylene dichloride prices W. of Rockies 1c per lb. higher.
- Oxide, cyls., c.l., works ..... lb. .26 - —
- l.c.l. works ..... lb. .27 - —
- tanks, dlvd ..... lb. .19 - —
- Trichloride (see Trichloroethane).
- Ethylenediamine, 85-88%, basis 100% dms., c.l., dlvd. E lb. .46 - —
- l.c.l., dlvd. E ..... lb. .47 - —
- tanks, dlvd. E ..... lb. .44 - —
- Ethyleneglycol, dms., c.l., dlvd. E. lb. .18¾ - —
- l.c.l. same basis ..... lb. .19¾ - —
- tanks, same basis ..... lb. .17 - —
- Monobutylether, dms., c.l., dlvd. E lb. .21½ - —
- l.c.l., dlvd. E ..... lb. .22½ - —
- tanks, dlvd E ..... lb. .20 - —
- Monoethylether, dms., c.l., dlvd. E. lb. .20 - —
- l.c.l., dlvd. E ..... lb. .21 - —
- tanks, dlvd. E ..... lb. .18½ - —
- Monoethylether acetate, dms., c.l., dlvd. E lb. .18¼ - —
- l.c.l., dlvd. E ..... lb. .19¼ - —
- tanks, dlvd. E ..... lb. .16½ - —
- Monomethylether, dms., c.l., dlvd. E lb. .21½ - —
- l.c.l., dlvd. E ..... lb. .22½ - —
- tanks, dlvd. E ..... lb. .20 - —
- Monomethylether acetate, dms., c.l., dlvd. E lb. .28¾ - —
- l.c.l., dlvd. E ..... lb. .29¼ - —
- tanks, dlvd. E ..... lb. .27 - —
- Monostearate, dms. ..... lb. .30 - .31
- Ethylethanolamines, mixed, dms., c.l., frt alld., E Miss lb. .42 - —
- l.c.l., same basis ..... lb. .43 - —
- tanks, same basis ..... lb. .40 - —
- Ethylmorphine hydrochloride, USP. bots oz. 11.85 - —
- Ethylorthotoluidin (see Monoethylorthotoluidin).
- Ethylvanillin, cns., 25-lb. lots ... lb 6.75 - 7.30
- smaller lots ..... lb 7.35 - 7.40
- Eucalyptol, USP, cns., dms ..... lb. 1.45 - 1.75
- Eucalyptus leaves, bls ..... lb 10 - .11
- Eugenol, pure, USP, bots ..... lb. 2.85 - 3.65
- Euphorbia herb, bls ..... lb. .12 - .14

F

- Feldspar, enamel, 100 mesh, bgs., works ton. 20.00 - 22.00
- Glass, 20 mesh, bulk, tons, works ton. 11.75 - 12.50
- Pottery, bgs., ton lots, works ton. 20.00 - 22.00
- bulk, c.l., works ton. 18.00 - 20.00

Fennel seed, Czech, dark, bgs ... lb. .15 - .15¼
- light, bgs. ..... lb. .25 - .26
- French, bgs ..... lb. .34 Nom.
- Syrian, light, bgs ..... lb. .31 - .31½

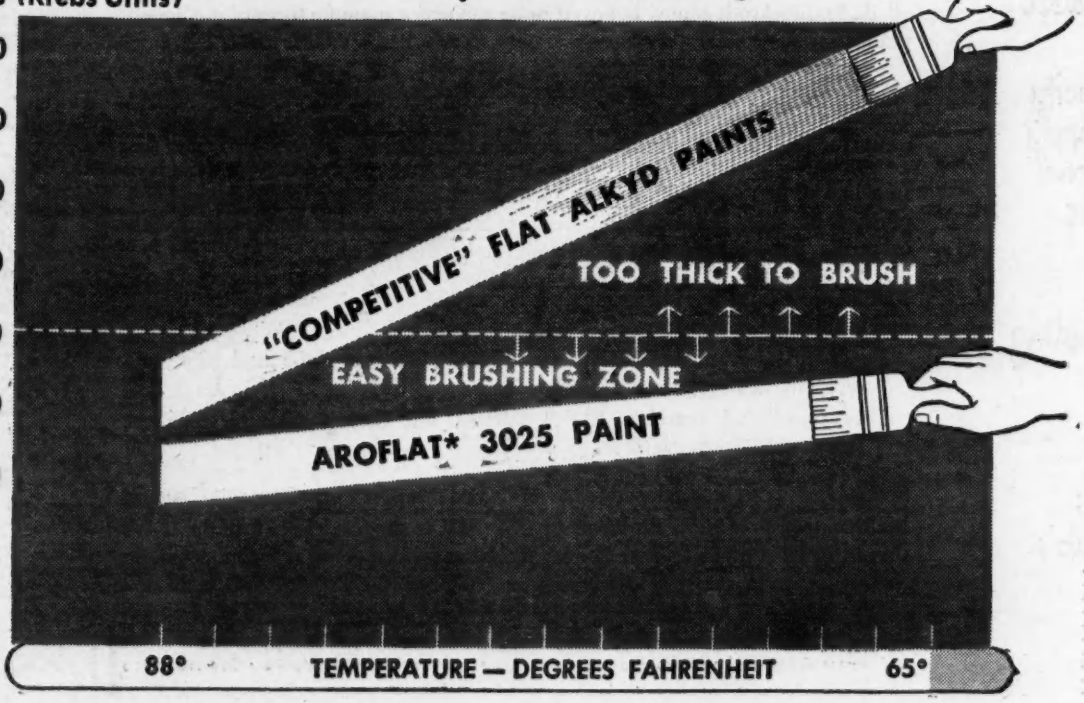
Fenugreek seed, Moroccan, bgs .. lb. .06 - .06½
- Ferric-ammonium citrate (see Iron ammonium citrate)
- Ferric cacodylate (see Iron cacodylate)
- Ferric glycerophosphate (see Iron glycerophosphate)
- Ferric hypophosphite (see Iron hypophosphite)
- Ferric sulphate (see Iron sulphate ferric)
- Ferrous gluconate, NF, dms ..... lb. .86 - .87

Fir, balsam, Canada, cns ..... gal. 32.00 - 33.00
Oregon, bbls ..... gal. 3.25 - 3.30
Fishberries, bgs ..... lb. .17 - .21
- Fishliver oil (see Oil, fishliver).

Fishmeal ground, domestic, 60% protein, bulk, Balto area, ton. 135.60 Nom.
- Fishscrap, dried 60% protein, bulk, Balto area ton. 129.60 - —

Fluorspar, dom., acid grade, bulk, c.l., mine ton. 60.00 - —
- ceramic grade, 93-96% CaF_2, grd., bulk, mine, c.l. ton. 57.50 - —
- 85-92% CaF_2, grd., bulk, mine. ton. 47.00 - —
- metallurgical grade, briquetts, pellets, 65% CaF_2, bulk, works ton. 34.00 - —
- lump, 59-65% effective CaF_2, bulk, mine, c.l. ton. 40.00 - —

Are you "OUT" in the cold on *Alkyd Flats?*



MAKE THIS QUICK TEST YOURSELF with either clear or pigmented resins—See what happens to paints formulated with Aroflat* 3025 vs. other resins when the temperature drops. The test above shows the difference at 88 degrees and at 65 degrees—which covers the normal application range. Aroflat 3025 makes a difference you can see!

The *controlled viscosity* characteristic which is imparted to paint by U.S.I. Aroflat 3025 is apparent over a wide range of normal application temperatures. This is another plus which proves Aroflat to be *unique in the field,* even after the recent flood of "competitive" alkyds.

If you will make a temperature test of Aroflat alkyds against other alkyds, you will discover immediately why Aroflat 3025 is preferred for quality paints — paints that are *safe on the shelf* and *on the consumer's brush* regardless of temperature changes.

Aroflat 3025 is the long-oil, pure alkyd resin which was pioneered by U.S.I. in 1950 and is designed especially for the manufacture of highest grade wall finishes, flat and semi-gloss. As a result of unique characteristics, it continues to be the leader in the field and paint manufacturers rely on Aroflat 3025 to keep their products in the market and not "out in the cold" when temperatures vary.

The entire Aroflat line offers the advantage of controlled "temperature-consistency factor" — a point to remember when you formulate your paints.

FOR ALL YOUR RESIN NEEDS, CHECK WITH U.S.I. —

AROFLAT* 3025 (and 3010 and 3050) for alkyd flats and semi-gloss, AROPLAZ* 1274 for latex paints. *Reg. U. S. Pat. Off.

U.S.I. INDUSTRIAL CHEMICALS CO.
Division of National Distillers Products Corporation
120 Broadway, New York 5, N. Y.
Branches in All Principal Cities

Fluorspar, dom., washed gravel, 59-60% effective CaF_2, bulk, mine, c.l. ton 40.00 - —
60-65% effective CaF_2, bulk, mine ton 40.00 -41.00
65-70% effective CaF_2, bulk, mine, c.l. ton 42.00 - —
70% or better, effective CaF_2, bulk, mine, c.l. ton 43.00 - —
Formaldehyde, NF (inhibited), dms., c.l., E., works lb. .066 - —
l.c.l., E. works lb. .071 - —
tanks, E. works lb. .0420-
methanol-free (uninhibited), tanks, works lb. .0395- —

Tankcar and tankwagon prices above are on a delivered basis in New England, Eastern New York, N. J., Eastern Penna., and part of Delaware, in states other than Eastern Seaboard as well as W of Rockies, prices f.o.b. Texas plants, are .0270 for inhibited and .0245 for uninhibited.

Fleaseed (see Psyllium seed).
Fringetree bark, bls lb. .60 - .61
Fuller's earth, dom., powd., bgs., Fla., mines ton 21.25 - —
Georgia mines ton 17.00 -18.00
Texas mines ton 16.00 - —
spent, f.o.b. shipt. pt. ton 4.50 - 5.00
imported, bgs., c.l. ton 42.00 - —
Furfural, tech., dms., c.l., works lb. .13 - —
l.c.l., works lb. .15 - —
tanks, works lb. .115 - —
Fusel oil, refined, dms., c.l., dlvd lb. .16¾- .17¼
l.c.l., dlvd lb. .17½- .18
tanks, dlvd lb. .15 - .15½
Fustic extract, cryst., No. 1, bbls., l.c.l lb. .47½- —
No. 2, bbls., l.c.l lb. .45½- —
No. 3, bbls., l.c.l lb. .43½- —
liquid, No. 1, bbls., l.c.l. lb. .22½- —
No. 2, bbls., l.c.l lb. .21½- —
No. 3, bbls., l.c.l lb. .19 - —
solid, No. 1, bxs., l.c.l lb. .45 - —

G

G salt, bbls., frt. alld lb. .73 - —
Galangal root, bls lb. .20 - .25
Gammapicoline, 98%, dms., c.l., works lb. 3.00 - —
Gasoline, at refinery, ex tax, Arkansas, 80 octane tanks gal. .1075- —
N. Y. Harbor, 86 octane tanks gal. .1285- .136
Group 3, 82 octane, tanks gal. .10375- .1062
Gulf coast, 82 octane, tanks gal. .1125- .1150
Penn., western U. S. motor, 86 octane, tanks gal. .1275- .129
natural, group 3, 26-70 octane, tanks gal. .0550- —
Gelatin, edible pure, (pork skin), 75 Bloom test, c.l. lb. .57 - —
150 Bloom test, c.l. lb. .65 - .66
200 Bloom test, c.l. lb. .71 - .72
225 Bloom test, c.l. lb. .74 - .75
275 Bloom test, c.l. lb. .82 - .85
silver label, imp., cs lb. 1.25 - —
Geisemium root, bls lb. .26 - .27
Gentian root bls lb. .17 - .20
grd., bbls., bxs lb. .22 - .23
powd., bbls., bxs lb. .23 - .24
Geraniol, extra, cns., dms lb. 1.40 - 1.85
standard, cns., dms lb. .60 - .75
Geranyl acetate, cns lb. 1.30 - 1.95
Ginger, oleoresin, NF, from African roots, bots lb. 4.00 - 7.75
from Jamaican root, bls lb. 5.00 -12.75
Root, African, bls lb. .14 - .14½
Cochin, unbleached, bgs lb. .19 - .19½
Jamaica, No. 1, bgs lb. .24 - .24½
No. 2, bgs lb. .15½- .16
No. 3, bgs lb. .14 - .14½
Rhattoon, bgs. lb. .13½- .14
Nigerian, split, bgs. lb. .11 - .11½
Ginseng root, cs lb. 16.50 -17.00
Glauber's salt, anhyd. see Sodium sulphate)
Glue, bone, extracted 66 jellygrams, bgs., c.l., dlvd lb. .24½- —
86 jellygrams, same basis lb. .25 - —
104 jellygrams, same basis lb. .25½- —
131 jellygrams, same basis lb. .26 - —
164 jellygrams, same basis lb. .26½- —
191 jellygrams, same basis lb. .27 - —
222 jellygrams same basis lb. .28 - —
packers' 40 jellygrams, bgs., c.l., dlvd lb. .21½- —
65 jellygrams, same basis lb. .22½- —
86 jellygrams, same basis lb. .23 - —
115 jellygrams, same basis lb. .24 - —
135 jellygrams, same basis lb. .25 - —
164 jellygrams, same basis lb. .26 - —
185 jellygrams, same basis lb. .27 - —
renderers' 110 jellygrams, bgs., c.l., dlvd lb. .22 - —
150 jellygrams, same basis lb. .23 - —
190 jellygrams, same basis lb. .24 - —

bone glue l.c.l prices 1c higher.

Hide, 70-94 jellygrams, bgs., c.l., dlvd lb. .26 - —
95-121, bgs., c.l., dlvd lb. .27½- .28
122-149, bgs., c.l., dlvd lb. .29 - .29½
150-177, bgs., c.l., dlvd lb. .30 - .31
178-206, bgs., c.l., dlvd lb. .31 - .32
207-236, bgs., c.l., dlvd lb. .32 - .33
237-266, bgs., c.l., dlvd lb. .33 - .34
267-296, bgs., c.l., dlvd lb. .34 - .35
299-330, bgs., c.l., dlvd lb. .35 - .36
331-362, bgs., c.l., dlvd lb. .36 - .37
363-394, bgs., c.l., dlvd lb. .37 - .38
395-427, bgs., c.l., dlvd lb. .38 - .39
428-460, bgs., c.l., dlvd lb. .40 - .41
461-494, bgs., c.l., dlvd lb. .41 - .43
495-529, bgs., c.l., dlvd lb. .42 - .45

Hide glue l.c.l prices 1c higher than c.l.

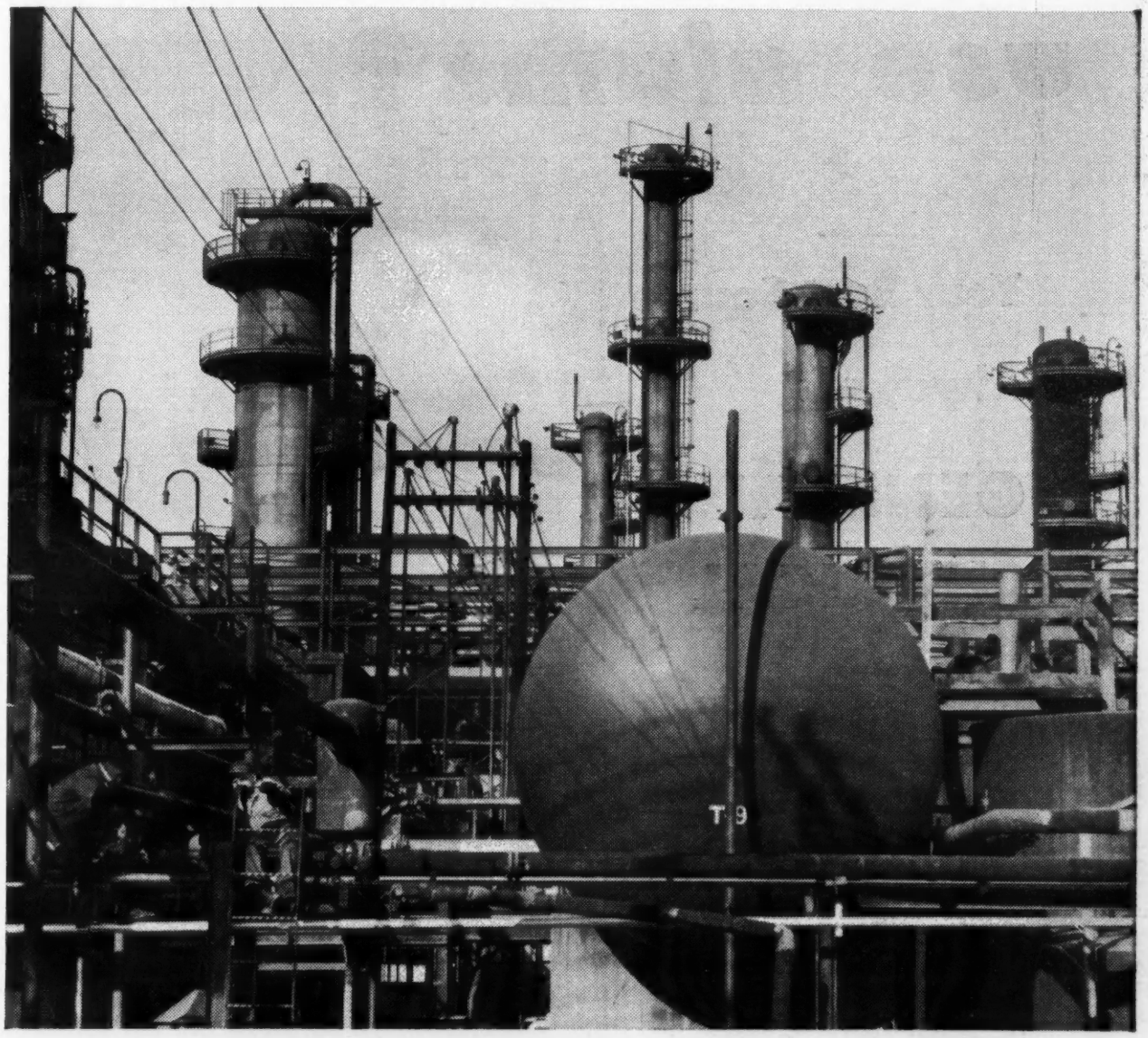
Glycerin, crude, saponification, 88%, to refiners, tanks, dlvd lb. .33½- .33¾
soaplye, 80%, tanks, dlvd lb. .30½- .31
dynamite, dms., c.l., dlvd lb. .43¾- —
l.c.l., dlvd lb. .44¼- —
tanks, dlvd lb. .43¼- —
high gravity, dms., c.l., dlvd lb. .44 - —
l.c.l., dlvd lb. .44½- —
tanks, dlvd lb. .43½- —
refined BP, 98%, dms., c.l., dlvd lb. .45⅞- —
l.c.l., dlvd lb. .46⅜- —
tanks, dlvd lb. .45⅜- —
USP, CP, 95%, dms., c.l., dlvd. lb. .44½- —
l.c.l., dlvd lb. .45 - —
tanks, dlvd lb. .44 - —
yellow, distilled, dms., c.l., dlvd. lb. .43⅞- —
l.c.l., dlvd lb. .44⅜- —
tanks, dlvd. lb. .43⅜- —
Glycine, USP (see Acid aminoacetic)
Glyoxal, 30% dms. c.l. works lb. .18½- —
l.c.l. works lb. .19 - —
tanks works lb. .18 - —
Gold chloride, acid-brown, bots oz. 22.50 -23.00
acid-yellow, bots oz. 20.50 -20.50
Golden seal root, NF, tested, bls. lb. 2.80 - 2.85
powd., bxs lb. 3.10 - 3.15
Grains of paradise, bgs lb. .34 - .34½
Graphite, amorph., powd., bgs., fib. dms., ex whse lb. .06 - .09½
crystalline, 88-90%, powd., bgs., fib. dms., ex whse lb. .19 - .21½
90-92%, powd., bgs., fib. dms., ex whse lb. .21 - .24½
95-97%, powd., bgs., fib. dms., ex whse lb. .29 - .31½
Graphite, flake, No. 1, 90-95%, bgs., fib. dms., ex whse. lb. .29 - .31
No. 2, 90-95%, bgs., fib. dms., ex whse. lb. .29 - .31
Grease, brown, tanks, dlvd lb. .03¼- —
house lb. .03¾- —
white, choice lb. .05½- —
yellow lb. .04 - —
Green, brilliant, thioflavin, toner, molybdated PMA, kgs., works lb. 5.10 - —
tungstated, PTMA, kgs., works lb. 6.30 - —
Chrome, CP, dark, light, medium, blue content 5 to 30%, bbls., dlvd. N. of Tenn. and N. C., E. of Miss., including St. Paul, Minneapolis Davenport, Rock Island, St. Louis lb. .38 - —
31-50%, bbls., same basis. lb. .39 - —
50-60%, bbls., same basis. lb. .40 - —
reduced color, 25%, bbls., same basis lb. .17 - .17¼

Chrome green prices are ½c. higher dlvd. Ala., Fla., Ga., La. (Shreveport 1½c.), Miss., N. C., S. C., Tenn., Texas (Dallas, Ft. Worth 1¼c; El Paso, 2c.); Cedar Rapids, Des Moines, Kansas City, Lincoln, Omaha, St. Joseph; 1c. higher dlvd. Pac. coast; for Denver, Pueblo, Salt Lake City, Wichita prices are equalized with Chicago.

Chromium oxide, hydrated, bbls., dms., c.l., frt. alld lb. .95 - 1.20
pure c.l., bgs., frt. alld lb. .37½- .44
Dyes (see Dyes, coaltar)
Malachite, straight, PTMA, bbls., works lb. 4.80 - —
Paris (see Paris green).

Fluorspar, Dom., Washed Gravel—Gum, Olibanum

Green, phthalocyanin toner, bbls., works lb. 4.40 - —
resinated, bbls lb. 4.00 - —
water dispersable, bbls lb. 1.71 - —
Pigment B, kegs lb. 1.35 - —
Grindelia robusta herb, bls lb. .38 - .40
Guaiac resin, NF, cs lb. .55 - .60
ordinary, cs lb. .49 - .51
Guaiacol, cryst., tins lb. 1.90 - —
liquid, NF, bots., cbys lb. 2.15 - 2.20
Carbonate, dms lb. 3.15 - 3.20
Guarana, powd., cs lb. 2.00 - —
Gum accroides (see Gum yacca).
Aloe (see A.)
Ammoniac tears, cs lb. .35 - .65
Arabic, amber sorts, bgs lb. .13½- .15
powdered, USP, bbls lb. .19 - .21
Asafetida (see A)
Asphaltum (see A).
Benzoin, Sumatra, cs lb. .38 - .42
Camphor (see C).
Cellulose, bgs., 23,000 lbs. or more, works, frt alld lb. .60 - —
smaller lots same basis lb. .62 - —
Copal, Congo, No. 1, bgs lb. .16 - .18
No. 2, bgs lb. .14 - .16
No. 3, bgs lb. .13 - .14
Manila, C, bgs. lb. .31 - .33
CBB, bgs. lb. .15¾- .17
DBB, bgs. lb. .16½- .18
DK, bgs. lb. .13 - .15
dust, bgs. lb. .11 - .12½
soft, MA, bgs. lb. .14½- .16
ws, bgs. lb. .27 - .35
Philippine, pale, chips, bgs. lb. .16½- .19
nubs, bgs. lb. .29 - .32
seeds, bgs. lb. .13 - .18
sorts, bgs. lb. .15 - .18
Pontianak, chips, bgs lb. .20 - .22
nubs, bgs. lb. .30 - .32
Gum, dammar, Batavia, A/E, bgs lb. .25 - .26
dust, bgs lb. .14 - 16
E., bgs. lb. .18 - .20
East India, batu, bold, bgs lb. .12 - .14
nubs and chips, bgs lb. 08 - .10
black, bold bgs lb. .14½- .16
unscraped, bgs. lb. .11 - .13
nubs and chips bgs lb. 11 - 13
pale chips bgs lb. 13 - 14
nubs, bgs. lb. .18 - .20
Singapore, No. 1, bgs lb. .35 - .38
No 2 bgs lb. 29 - .32
No 3 bgs lb. 16 - 17
dust, bgs. lb. .15½- .17
seeds, bgs. lb. .18 - .20
Ester, gum-rosin type, dms., c.l., dlvd. Ill., Ind., Ky., Mich., Mid-Atl. States, N. E. States Minneapolis N C., Ohio St Louis St Paul, Va., W. Va lb. .14 - .14½
wood-rosin type, dms., c.l. dlvd., ill., Ind., etc lb. 14 —
Euphorbium, cs lb. .55 - .60
Galbanum cs lb. 75 - .80
Gamboge, pipe, cs lb. .90 - 1.00
powd. bbls lb. 90 1 20
Ghatti, No 2 bgs lb. 35 - 37
No. 3, bgs lb. 31 - 33
Guaiac (see Guaiac resin)
Karaya, NF, powd., No. 1, bbls lb. 30 - 35
No. 2, bbls lb. 28 - 29
No. 3, bbls lb. 22 - 23
Kauri bgs. lb. 30 - 50
Kino, cs lb. 1.50 - 2.40
Locust bean, powd., bgs lb. 30 - 32
Mastic cs lb. 2.00 2 10
Myrrh, cs lb. 35 - 40
Olibanum siftings, cs lb. 14 - 22
tears, cs lb. 25 - 30



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Solid, in drums—Flake, in drums

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Gum, Opium—Kaolin

Gum, Opium (see O).
Red (see Gum, yacca)
Rosin (see R)
Sandarac, cks. ..... lb. 2.50 - 3.50
Scammony, cs. ..... lb. 1.50 - 1.55
Sterculia (see Gum karaya).
Talha, bgs ..... lb .10 - .11
Tragacanth, No. 1, cs ..... lb 2.35 - 2.90
No. 2, cs ..... lb 2.45 - 2.50
No 3, cs ..... lb 1.60 - 1.70
powdered, USP, bbls ..... lb 1.25 - 1.35
Yacca, bgs ..... lb. .06 - —
Gypsum, anhydrous filler paper bgs., c.l., Medicine Lodge Kan ton 19.00 - —
Plaster of paris, paper bgs., c.l., Baltimore, frt. equald ton 18.30 - —
Harlem river, N. Y., frt. equald ton 17.30 - —
Medicine Lodge, Kan., frt. equald ton 16.00 - —
Stucco, paper bgs., Akron, N. Y., frt. equald ton. 8.00 - —
Blue Rapids, Kans., frt equald ton. 8.00 - —
Fort Dodge Iowa, frt equald. ton 8.00 - —
Gypsum, Ohio, frt. equald ton 8.00 - —
Grand Rapids, Mich., frt. equald ton. 8.00 - —
New Brighton N. Y., frt. equald ton 8.00 - —
Plasterco, Ga., frt. equald. ton. 8.00 - —
Roton, Texas, frt. equald ton. 8.00 - —
Southard, Okla., frt. equald. ton. 8.00 - —
Sweetwater, Texas, frt. equald. ton 8.00 - —
Gypsum, terra alba, dom., paper bgs., c.l., Baltimore ..ton.14.40 - —
Harlem River, N. Y. ..ton.14.40 - —
imported, English, paper bgs., ex dock ..ton.48.00 - —
ex warehouse .....ton.53.00 -56.00

H

Hawthorn berries, bgs ..... lb. .30 - .32
Heliotropine, cryst., cns ..... lb. 3.10 - 3.65
Helonias root, bls ..... lb. 1.65 - 1.70
Hellebore root, dom., green, bls lb. .60 - .65
imp., black, whole, bls ..... lb. .25 - .30
ground, bxs ..... lb. .30 - .35
powder, bxs ..... lb. .32 - .37
white, whole, bls ..... lb. .25 - .30
powder, bxs ..... lb. .35 - .45
Hematine extract, cryst. No. 1, bbls., l.c.l. lb. .47 - —
No. 2, bbls., l.c.l. ..... lb. .43 - —
No. 3, bbls., l.c.l. ..... lb. .41 - —
No. 4, bbls., l.c.l. ..... lb. .39 - —
No 5, bbls., l.c.l. ..... lb. .37 - —
paste, No. 1, bbls., l.c.l. ..... lb. .20½- —
Henbane leaves, bls ..... lb. .35 - .40
Henna leaves, bls ..... lb. .18 - .20
powd., bbls., bgs ..... lb. .26 - .28
Heptane, industrial, Bayonne, N. J., tanks gal. .18 - —
group 3, tanks ..... gal. .1375- .1403
Hesperidin methylchalcone, bots., works lb.50.00 - —
Hexachlorophene, dms ..... lb. 2.60 - —
Hexalin (see Cyclohexanol).
Hexamethylenetetramine, tech., bgs., 1,000-lb. lots or more, Perth Amboy or N. Y. C. lb. .232 - —
less than 1,000-lb. lots, same basis lb. .242 - —
fib. dms., 1,000-lb. lots or more, same basis lb. .239 - —
less than 1,000-lb. lots, same basis. lb. .249 - —
USP, dms., 500 lbs. or more, same basis lb. .40½- —
smaller lots, same basis ... lb. .41½- —
Hexamine (see Hexamethylene tetramine).
Hexane, industrial, Bayonne, N. J., tanks gal. .18 - —
Group 3, tanks ..... gal. .145 - .148
Hexanol, normal, dms., c.l., works. lb. .34½- —
l.c.l., works ..... lb. .35 - —
tanks, works ..... lb. .33 - —
Hexyl cinnamic aldehyde, dms lb. 2.25 - 7.50
Salicylate, dms ..... lb. 1.75 - —
Hexylenegiycol, dms., c.l., dlvd lb. .15¾- —
l.c.l., dlvd ..... lb. .16½- —
tanks, dlvd ..... lb. .14 - —
Hexylmethacrylate, normal, dms., less than truckload, works. lb. .71 - —
Hexylresorcinol, USP, dms., dlvd., 50-lb. lots or more ..lb.14.00 - —
smaller lots, dlvd ..... lb.14.50 - —
Histamine diphosphate, USP., bots. kilo.450-00 - —
Histidine hydrochloride, laevo, NF, fib. dms., 50-kilo lots, works. kilo.80.00 -85.00
1-5 kilo lots works ..... kilo.90.00 -95.00
Homatropine hydrobromide, USP, bots oz.13.75 -14.00
Hydrochloride, bots ..... oz.20.00 -22.00
Methylbromide, USP, bots .... ez.13.00 -14.50
Hoofmeal, 17-18% ammonia, bulk, c.l., Chicago ..unit-ton. 5.50 - —
Hops, NF, bls ..... lb. .30 - .35
Horehound herb, bls ..... lb. .14 - .15
Hydrangea root, bls ..... lb. .22 - .25
Hydrastine, bots ..... oz.29.50 -31.00
Hydrochloride, NF, bots ..... oz.29.50 -31.00
Sulphate, bots ..... oz.35.00 -37.00
Hydrastinine, 10-grain bots ..... bot. 1.95 - —
Hydrastis (see Goldenseal).
Hydrazine, free base, ret. dms., Niagara Falls ..lb. 3.00 - 3.30
Hydrate, 100%, ret. dms., Niagara Falls ..lb. 1.75 - 1.95
85%, same basis ..... lb. 1.35 - 1.55
Hydroturamide, dms., fib. etns., works lb. .30 - .40
Isonicotinic acid hydrazide (see Isoniazid).
Hydrogen chloride anhyd., 50-lb. cyl., works lb. .55 - .60
Peroxide, USP bbls. dlvd .... lb. .03¾- .05
35%, cbys., same basis ..... lb. .21 - —
dms., c.l., same basis ..... lb. .208 - —
l.c.l., same basis ..... lb. .213 - —
tanks ..... lb. .201 - —
Hydrogen peroxide prices on W. Coast 2c per lb. higher.
Hydroquinone, photogrd., bbls., dms. lb. .93 - 1.00
tech., dms., c.l., frt. equald lb. .77 - —
l.c.l., frt. equald ..... lb. .78 - —
Hydroxycitronellal, cns ..... lb. 5.35 - 5.80
Hyoscine salts (see Scopolamine).
Hyoscyamine, bots ..... oz.15.75 -16.00
Hydrobromide, bots ..... oz.16.50 -18.00
Sulphate, bots ..... oz.12.00 -13.50
Hypernic extract, cryst., No. 2, bbls., l.c.l. lb. .53 - —
liquid, No. 1, bbls., l.c.l. ..... lb. .25 - —
No. 2, bbls., l.c.l. ..... lb. .27 - —
Hyssop herb, bgs ..... lb. .35 - .36
Leaves, bgs ..... lb. .50 - .51

I

Iceland moss, bgs ..... lb. .30 - .35
Ichthammol, NF, dms ..... lb. .60 - .75
Indian red (see Red, Indian).
Indigo (see Dyes, coaltar, 1171 Indigo synthetic).
Indol, CP, bots ..... lb.17.00 -21.00
Inositol, dms., dlvd ..... lb. 4.50 - 4.75
bots., dlvd ..... lb. 5.00 - —
Insect flowers (see Pyrethrum).
Iodine, crude, kgs ..... lb. 1.84 - 2.04
resublimed, USP, bots., jars .. lb. 2.80 - 2.82
Iodochlorohydroxyquin, USP, dms. lb. 5.90 - —
Iodoform, NF, dms., kgs ..... lb. 4.90 - 5.00
Ionone, alpha, cns ..... lb. 4.00 - 8.25
Beta, cns ..... lb. 4.30 -11.25
Methyl, dms., cns ..... lb. 4.05 - 4.65
Ipecac root, bgs ..... lb. 5.50 - 6.00
powd., bbls., bxs ..... lb. 6.00 - 6.50
Irish moss, bleached, prime, bls .. lb. .30 - .35
Iron acetate liquor, 28°, bbls., c.l., works lb. .09 - —
l.c.l., works ..... lb. .09¾- —
solut., USP, IX, cbys ..... lb. .16 - —
djns ..... lb. .17 - —
Cacodylate, NF, bots ..... lb.13.00 -14.00
Chloride (ferric), anhydr., tech., dms., c.l., works .. 100 lbs. 6.25 - —
l.c.l., works ..... 100 lbs. 7.50 - —
cryst., indus., bbls., c.l., works 100 lbs. 5.25 6.25
l.c.l., works 100 lbs. 5.75 6.75
USP, dms., works lb. .07½- .09
solut., 42° Be, basis 100%, cbys., c.l., works .. 100 lbs. 7.25 - 8.25
l.c.l., works 100 lbs. 7.75 -10.75
tanks, works ..... 100 lbs. 3.45 - —
Citrate, gran., dms ..... lb. .77 - .80
Gluconate, NF (see Ferrous gluconate, NF).
Glycerophosphate, NF, powd lb. 4.45 - 4.55
Hypophosphite, NF, dms ..... lb 2.80 - —
Iodide bgs. ..... lb. 3.66 - 3.73
Naphthenate liq., 6% Fe., dms., frt. alld lb. .23¾- —
Oxalate, gran., dms ..... lb. .85 - .87
Phosphate, soluble, NF, gran., pearls, cs lb. .64 - .65
Pyrophosphate, soluble, NF VII, gran. pearls, dms lb. .78 - .81
Reduced, NF, kgs ..... lb. .85 - .95
Resinate, 6.75% Fe, dms., frt. alld. lb. .26¼- —
Stearate, dms., c.l. ..... lb. .37 - —
ton lots ..... lb. .38 - —
less ton lots ..... lb. .39 - —
Sulphate, ferric, partially hydrated, bgs., c.l., works ton.30.00 - —
l.c.l., works ..... ton.31.00 - —
ferrous, tech. (see Copperas).
USP, cryst., bbls., dms ..... lb. .09½- .10
Iron by hydrogen (see Iron, Reduced).
Iron-ammonium citrate, brown, N.F., gran., dms lb. .53 - .60
green, USP XII, gran., dms lb. .55 - .59
Oxalate, fine gran., dms lb. .25½- .28¼
Iron-potassium, oxalate, fine gran., dms lb. .30½- .33½
Iron-sodium, oxalate, fine gran., dms lb. .25½- .28¼
Isoborneol, cns ..... lb. 1.25 - 1.70
Isobornyl acetate, cns ..... lb. .65 - .95
Formate, dms. ..... lb. .80 - —
Propionate, dms ..... lb. 1.15 - 1.45
Isobutyl acetate, perfume grade, cns. lb. .75 - .97
solvent grade, dms., c.l., dlvd. E. of Rockies lb. .13 - —
l.c.l., same basis ..... lb. .13¾- —
tanks, same basis ..... lb. .11¼- —
Methacrylate, dms., works ..... lb. .60 - —
Isobutyraldehyde, dms., works .. lb. .50 - —
Isoeugenol, cns. ..... lb. 3.65 - 3.95
Isoniazid, bulk, powder, 25-kilo lots or more .. kilo.30.00 -32.00
smaller lots ..... kilo.30.00 -32.00
Isopentane, dms., works ..... lb. .43 .55
Isophorone, dms., c.l., works .... lb. .24¼- —
l.c.l., works ..... lb. .24¾- —
tanks, works ..... lb. .22½- —
Isopropanol (see Alcohol, isopropyl).
Isopropyl acetate, dms., c.l., dlvd. lb. .11¾- —
l.c.l., same basis ..... lb. .12½- —
tanks, same basis ..... lb. .10 - —
Alcohol (see Alcohol, isopropyl).
Benzene (see Cumene).
Ether (see Ether, isopropyl).
Isopropylamine (see Mono-, Di- or Tri-)
Isopropylphenol, dms., c.l., works lb. .46 - —
l.c.l., works ..... lb. .47 - —
tanks, works ..... lb. .45 - —
Isoquinolin, dms., works ..... lb. .65 - 1.25

J

Jaborandi leaves, bls ..... lb. .17 - .18
Jalap root, NF, bls ..... lb. .38 - .48
powd., bbls., bxs ..... lb. .45 - .55
Juniper berries, bgs ..... lb. .16 - .22
Tar, NF, dms ..... lb. .42 - .50

K

Kamala, powd., cns ..... lb. .60 - .65
Kaolin (see also Clay, China).
NF, powd., fib. dms ..... lb. .09 - .16¼
colloidal, fib. dms ..... lb. .15 - .15½

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Aluminum Sulfate
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Kerosene, at refinery, Ark., 42-44 specific gravity, w.w., tanks, gal. .08875- —
California, 40-43 s.g., w.w., tanks, gal. .144 - .148
Gulf ports, 41-43 s.g., w.w., tanks, gal. .0970- .1015
N. Y. Harbor, 43-44 s.g., w.w., tanks gal. .1025- .1075
Okla.-Tex., 41-43 s.g., w.w., tanks gal. .0875- .095
Penn, Western, 43 s.g., w.w., tanks gal. .1125- .1193
Kola nuts, bgs lb. .08 - .09

L

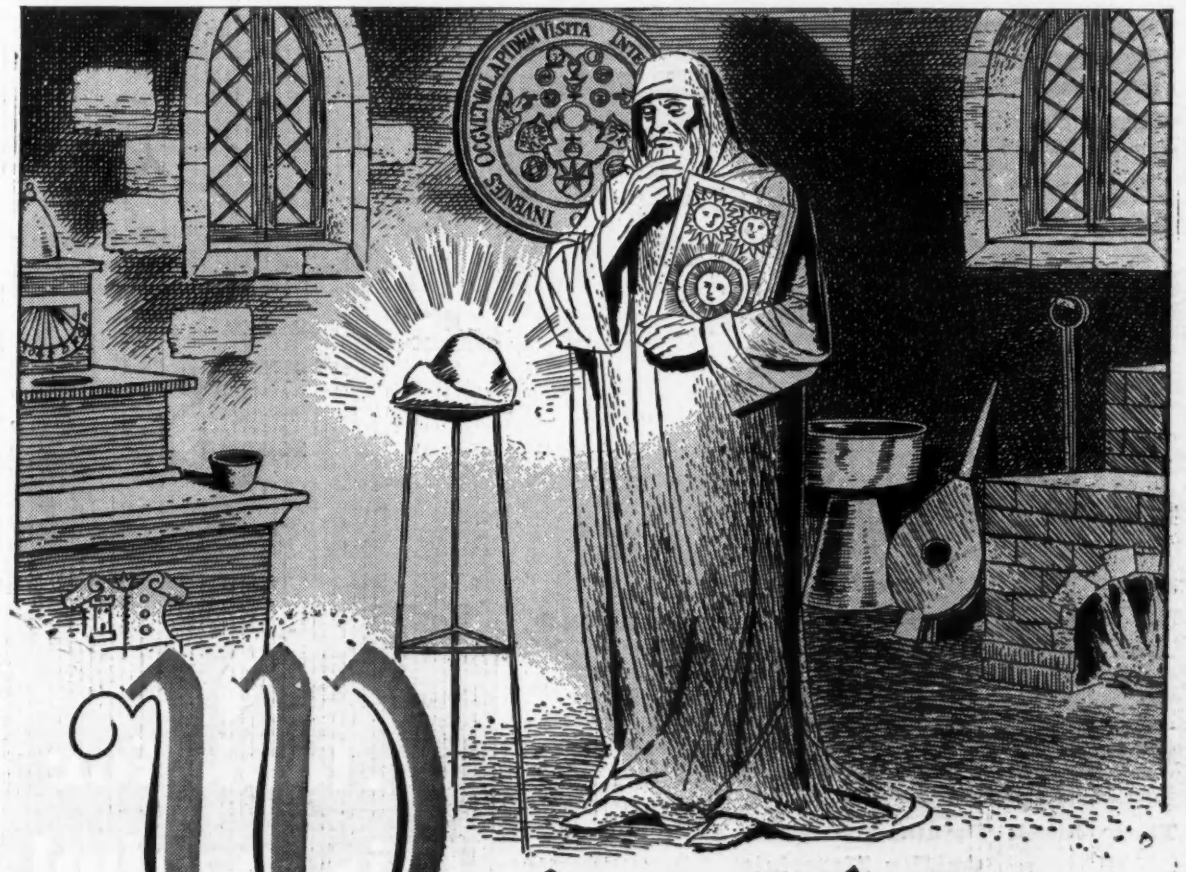
Lady's slipper root, bls lb. 1.70 - 1.75
Lanolin, cosmetic, dms., works lb. .38½- .48½
USP, anhydrous, dms., works lb. .35½- .36½
hydrous, dms., works lb. .34½- .35½
Lard, cash, tres., Chicago lb. .1055- —
Larkspur seed, bgs lb. .20 - .25
Laurel berries, bgs lb. .25 - .26
Leaves, Greek, bls lb. .09 - .10
Portuguese, bls lb. .10 Nom.
Turkish, bls. lb. .14 Nom.
Yugoslavian, bls. lb. .09 - .09½
Lauryl chloride, dms., works, frt. equald lb. .72 - —
Methacrylate, normal, dms., less than truckload, works lb. 1.00 - —
Lavender flowers, medium, bls lb. .55 - .60
ordinary, bls lb. .16 - .20
select, bls lb. .90 - —
Lead acetate, white crystals, bbls. lb. .22 - —
gran. bbls lb. .23 - —
powd., bbls lb. .23 - —
NF cryst., gran., powd lb. .31 - .32
Arsenate, acid powder, dealers, 3-lb. bgs., or larger, c.l., frt. alld. on 96 lbs. or more lb. .27½- —
l.c.l., frt alld lb. .28½- —
1-lb. bgs., c.l. lb. .41½- —
l.c.l. lb. .42½- —
Blue, basic sulphate, bbls., c.l., ship't point, frt. alld. lb. .14 - —
l.c.l., works lb. .15 - —
Carbonate (see Lead, white).
Chloride, dms lb. .45 - —
Iodide, NF, V jars lb. 3.82 - —
Linoleate, fused, 26.5%, dms lb. .32½- —
Metal, pigs, prime, N. Y. lb. .1250- —
St. Louis lb. .1230- —
Metallic paste, dms., 20,000-40,000 lbs., works lb. .34¼- —
10,000-20,000 lbs., same basis, lb. .34¾- —
2,000-10,000 lbs., same basis, lb. .35¼- —
200-2,000 lbs., same basis lb. .35¾- —
Prices ex whse, Jersey City, N. J., 4½c. per lb. higher.
Monosilicate, bgs., c.l. lb. .1368- —
l.c.l. lb. .1470- —
Naphthenate, liquid, 16% Pb, dms., dlvd lb. .17¼- —
24% Pb, dms., dlvd lb. .23¼- —
solid, 37% Pb, dms., dlvd lb. .30½- —
Nitrate, bbls. lb. .22¼- —
Oleate, fused, bbls lb. .29¾- —
Orthosilicate gel. 50% PbO, dms., works lb. .32¾- —
60% PbO, dms. works lb. .31¾- —
Peroxide, powd., tech., bbls lb. .45 - .47
Phthalate, dibasic, dms., works, lb. .41 - —
Red, 95% Pb_3O_4, or less, bbls., c.l., ship't point, frt. alld. lb. .15¼- —
l.c.l., same basis lb. .16¼- —
97% Pb_3O_4, bbls., c.l., same basis lb. .15½- —
l.c.l., same basis lb. .16½- —
98% Pb_3O_4, bbls., c.l., same basis lb. .15¾- —
l.c.l., same basis lb. .16¾- —
Resinate, precip., dms., dlvd lb. .28½- —
Salicylate, normal, dms., works lb. .46 - —
Stearate, dibasic, ton lots lb. .54 - —
precip., bbls., c.l. lb. .39 - —
ton lots lb. .40 - —
less ton lots lb. .41 - —
Sulphate (see Lead blue; Lead white; basic sulphate).
Tallate, liquid, 16% Pb, dms. lb. .15 - —
24% Pb, dms. lb. .20 - —
White, basic, carbonate, bgs., c.l., ship't point, frt. alld. lb. .15¼- —
l.c.l., same basis lb. .16¼- —
basic silicate, bgs., c.l., ship't point, frt. alld. lb. .14¾- .17
l.c.l., same basis lb. .15¾- .18
basic sulphate, bgs., c.l., ship't point, frt. alld. lb. .14 - —
l.c.l., same basis lb. .15 - —
Lecithin, edible, tech., bleached dms., non-ret., c.l., works, lb. .15½- .16
l.c.l., same basis lb. .16½- .19
unbleached, c.l., same basis lb. .14½- .15
l.c.l., same basis lb. .16 - .18
Lemon peel, bls lb. .20 - .26
Leucine dextro-laevo, dms., works, lb. 12.25 -15.00
Licorice extract, mass, cns lb. .21¼- .40
powd., bbls lb. .31¼- .50
Root, bls. lb. .05½- .06
5-lb. bundles, cs lb. .50 - .55
powd., bbls lb. .11 - .13
Lignin extract, tanning grade, bgs., c.l., works lb. .05¼- .06¼
Lime, agricultural, bulk, works ton. 14.50 - —
Chemical (quicklime), lump, pebble, bulk, Adams, Mass. ton. 12.50 - —
Annville, Pa ton. 11.50 - —
Austin, Texas ton. 9.50 - —
Bellefonte, Pa. ton. 11.50 - —
Buffalo, N. Y. ton. 14.00 - —
Cedar Hollow, Pa. ton. 11.50 - —
Duluth, Minn. ton. 12.50 - —
El Paso, Texas ton. 14.00 - —
Farnams, Mass. ton. 14.00 - —
Gibsonburg, Ohio ton. 12.50 - —
Hannibal, Mo. ton. 10.00 - —
Keystone, Ala. ton. 10.25 - —
Kimballton, Va. ton. 10.25 - —
Knoxville, Tenn. ton. 10.50 - —
Lee, Mass ton. 12.50 - —
Lewisburg, Ohio ton. 10.00 - —
Limedale, Ark. ton. 10.00 - —
Los Angeles, Cal. ton. 25.10 -26.84
Marble Cliff, Ohio ton. 10.00 - —
Martinsburg, W. Va ton. 11.00 - —
Mosher, Mo. ton. 10.75 - —
Nelson, Ariz. ton. 14.50 -23.65
Quincy, Ill. ton. 10.00 -13.00
Reddick, Fla. ton. 13.50 - —
Scotrock, Ala. ton. 10.25 - —
Springfield, Mo. ton. 12.25 - —
Winooski, Vt. ton. 15.50 - —
Woodville, Ohio ton. 11.50 - —
York, Pa. ton. 15.50 - —
Hydrated, paper bags, Adams, Mass ton. 15.50 - —
Annville, Pa. ton. 14.50 - —
Austin, Texas ton. 13.00 - —
Bellefonte, Pa. ton. 14.50 - —
Buffalo, N. Y. ton. 16.00 - —
Cedar Hollow, Pa. ton. 14.50 - —
Chicago, Ill. ton. 15.00 - —
Duluth, Minn. ton. 14.00 - —
El Paso, Texas ton. 17.50 - —
Engle, W. Va. ton. 14.50 - —
Farnams, Mass. ton. 14.00 - —
Lime, hydrated, paper bgs., Gibsonburg, Ohio ton. 16.50 - —
Hannibal, Mo. ton. 12.00 - —
Keystone, Ala. ton. 13.50 - —
Kimballton, Va. ton. 13.50 - —
Knoxville, Tenn. ton. 13.00 - —
Lee, Mass. ton. 15.50 - —
Lewisburg, Ohio ton. 14.00 - —
Limedale, Ark. ton. 12.00 - —
Marble Cliff, Ohio ton. 13.50 - —
McNeil, Tex ton. 13.00 - —
Meneminee, Mich. ton. 14.00 - —
Mosher, Mo. ton. 13.00 - —
North Tazewell, Va. ton. 12.75 - —
Quincy, Ill ton. 10.00 -12.00
Reddick, Fla. ton. 16.00 - —
Scotrock, Ala ton. 13.50 - —
Springfield, Mo. ton. 12.25 - —
Winooski, Vt ton. 15.50 - —
Woodville, Ohio ton. 14.50 - —
York, Pa ton. 14.50 - —
Spray, paper bgs., Adams, Mass. ton. 17.00 - —
Annville, Pa ton. 17.00 - —
Austin, Texas ton. 13.00 - —
Bellefonte, Pa. ton. 17.50 - —
Carey, Ohio ton. 11.00 - —
Duluth, Minn. ton. 15.00 - —
Engle, W. Va. ton. 14.50 - —
Farnams, Mass. ton. 14.00 - —
Gibsonburg, Ohio ton. 16.50 - —
Keystone, Ala ton. 13.50 - —
Kimballton, Va. ton. 13.50 - —
Lee, Mass. ton. 17.00 - —
Lewisburg, Ohio ton. 16.00 - —
Marble Cliff, Ohio ton. 16.00 - —
McNeil, Tex ton. 16.00 - —
Meneminee, Mich. ton. 14.00 - —
Mosher, Mo. ton. 13.00 - —
North Tazewell, Va. ton. 12.75 - —
Reddick, Fla ton. 16.00 - —
Rockland, Me. ton. 10.00 - —
Springfield, Mo. ton. 12.25 - —
Lime, spray, paper bgs., Scotrock, Ala. ton. 13.50 - —
Winooski, Vt ton 17.00 - —
Woodville, Ohio ton. 16.50 - —
York, Pa ton. 15.50 - —
Lime salts (see Calcium).
Lime-ammonia nitrogen, 20.5% N (see Ammonium nitrate with dolomite).
Limestone grd. bgs. works ton. 3.50 - 4.00
Linalool, ex bois de rose, dms. lb. 5.35 - 6.00
ex lignaloe wood, dms. lb. 6.75 - 7.10
Linalyl acetate, ex bois de rose, 90-92%, dms. lb. 5.45 - 6.05
96-98%, dms. lb. 6.05 - 7.10
ex petitgrain, bots lb. 4.35 - 5.05
Lindane, 25% formulation, dealers, cns., works lb. 2.20 - —
dms., dealers, dms lb. 2.10 - —
99%, tech., dealers, dms., works, lb. 2.75 - 3.35
Linden flowers with leaves, bls lb. .34 - .35
without leaves, bls lb. .40 - .41
Linseed meal, expeller, 32-34% bulk, Midwest, mills ton. 64.50 -66.00
extracted, 36%, same basis ton. 62.00 -63.00
Litharge, com'l, powd., bbls., c.l., ship't point, frt. alld. lb. .14¼- —
l.c.l., same basis lb. .15¼- —
Lithium benzoate, dms lb. 1.65 1.67
Bromide, NF, bbls., works, frt. equald lb. 2.10 - 2.75
Carbonate, tech., dms. lb. .80 - 1.10
Chloride, cryst., dms lb. .95 - 1.25
Citrate, NF, bbls., dms., kgs lb. 1.05 - 1.40
Fluoride, bbls lb. 1.85 - 2.00
Hydride, powd., dms., works lb. 12.00 -14.00
Hydroxide, monohydrate, dms lb. .91 - 1.05
Salicylate, dms lb. 1.60 - 1.70

Kerosene—Magnesia

Lithopone, ordinary, bgs., c.l., dlvd lb. .07½- —
l.c.l., dlvd. lb. .08¼- .08¼
titanated (high-strength), bgs., c.l., dlvd lb. .10 - —
l.c.l., dlvd lb. .11 - —
Lithopone prices, Pacific Coast, 1c. per lb. higher.
Liverwort leaves, bls lb. .65 - .68
Lobelia herb, bls lb. .38 - .40
Leaves, NF lb. 75 - 78
Lobeline sulphate, bots., works oz. 33.00 -34.00
Logwood extract, crystals, No. 1, bbls., l.c.l lb. 41 - —
No. 2, bbls., l.c.l lb. 39 - —
liquid, No. 1, bbls., l.c.l. lb. 20 - —
No. 2, bbls., l.c.l lb. 19 - —
No. 3, bbls., l.c.l lb. 18½- —
solid, No. lb. 35 - —
Lovage root, imported, bls lb. .65 - .75
Lupulin, tins lb. 1.95 2.00
Lycopodium cs lb. 1.40 - 1.60
Lysine hydrochloride, dextro-laevo, bots kilo 145.00 -149.00

M

Mace, Siauw, No. 1, bls lb. 1.05 - —
West Indian, No. 1, bls lb. .88 - —
broken, cs lb. 70 - 72
Magnesia, calcined, tech., ctns works lb. 32 - 34¼
synth., rubber grade, ctns., works lb. 31 - —
USP, light, ctns lb. 34 - .36
heavy, bbls. lb. .36 - .38



Wonder worker

WHAT IS A "WONDER WORKER"? The alchemists *sought* one in the Philosopher's Stone, a substance that would turn base metals into gold. Modern paint and enamel formulators *have found* one in Epon resins.

For example, Epon resins have made possible an *entirely new* type of surface coating, combining the chemical resistance of baked films with the convenience of air-dried finishes. From floor varnishes and trim paints to baked container linings that resist chemical attack, Epon resins have created important improvements in surface coatings.

Epon resins provide excellent adhesion, especially to metals —high chemical resistance—outstanding flexibility and impact resistance. These characteristics point the way to a new era of surface coating formulation!

Epon® Resin

Although the demand for Epon resins currently exceeds the supply, increased production is on the way. Discover for yourself their advantages, and you will agree that Epon resins are worth waiting for . . . and planning for . . . *now*. You are invited to write for complete technical information.

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Magnesite—Methylcellulose

Magnesite, chemical grade, bgs., c.l., works, frt. equald ton 72.50 - —
dead burnt, standard grain, bulk, c.l., Chewalah, Wash ton 38.00 - —
Magnesium bromide, jars lb .90 - 1.00
Carbonate, tech., bgs., c.l., frt. equald lb .09½- —
l.c.l., frt alld lb .10½- —
bbls., c.l., frt. equald lb .10¾- —
l.c.l., frt. alld lb .11¾- —
kgs. c.l., frt. equald lb .12 - —
l.c.l., frt. alld lb .13 - —
USP, bgs., c.l., frt. equald lb .11¼- —
l.c.l., frt. alld lb .12¼- —
bbls., c.l., frt. equald lb .11¾- —
l.c.l., frt. alld lb .12¾- —
kgs., c.l., frt. equald lb .13 - —
l.c.l., frt. alld lb .14 - —

Magnesium carbonate is quoted frt. alld. to N. J. except to Atlantic, Burlington, Cape May, Cumberland, Glostershire, Ocean and Salem counties, and to Phila county, Pa. Frt equald with N. Y. C. on all other destinations.

Chloride, anhyd., lump, 95-98%, drums, c.l., works, frt. equald lb .12¾- —
l.c.l., same basis lb .14 - .15
powd., bbls., works ton 50 00 - —
hydrous, flake, dms., l.c.l., works ton 49 00 - 51.00
Gluconate, dms., cns lb 1.30 - 1.37
Glycerophosphate, dms., works lb 5.10 - 5.20
Hydroxide, NF, medicinals, bbls., dms., kgs lb 26½- .30
Hypophosphite, dms lb 1.60 - —
Laurate, bbls lb .46 - .47
Metal, 99.8% ingots, cs., works lb .27 - —
sticks, cs., works, frt. alld. on carlots lb .45 - —
Oleate, fused, bbls lb .31 - —

Magnesium oxide (see Magnesia, calcined).
Peroxide, 15%, dms., works lb 1.00 - 1.05
Phosphate, tribasic, NF, bbls lb .73 - —
Silicate (see Talc).
Silicofluoride, bbls., works lb .09 - .10
Sulphate (see Epsom salt).
Stearate, ctns., cs. lb .28 - —
ton lots lb .39 - —
less ton lots lb .40 - —
Trisilicate, USP, dms., 5,000-lb. lots lb .38 - —
1,000-lb. lots lb .40 - —
100-lb. lots lb .45 - —

Bulky and super grades of magnesium trisilicate, 7c. per lb. higher.

Maleic anhydride, dms., c.l., dlvd. E lb .37 - —
l.c.l., dlvd. E lb .38 - —

Prices on maleic anhydride W. of Rockies, 1½c. higher.

Malva flowers, black, bls lb .90 Nom.
blue, bls lb 1.65 - 2.00
Mandrake root, bls lb .29 - .30
Manganese acetate, bbls, dlvd lb .32½- —
Arsenate, bgs lb .16 - —
Borate, tech., bbls lb .24 - —
Carbonate, bbls., works lb .21 - —
Chloride, anhyd., dms., works lb .20 - .29
Dioxide, African, 84-87%, 40,000 to 99,999-lb. lots, paper bgs., gross for net, works ton 88.00 - —
paper-lined burlap bgs., works ton 91.50 - —
dms., works ton 94.00 - —

Prices for manganese dioxide in 10,000 to 40,000-lb. lots, $3 per ton higher.

Manganese gluconate, dms., cns. lb 1.96 - 1.98
Glycerophosphate, NF, fib. dms. lb 4.70 - 4.80
Hydrate, bbls., dlvd. lb .33¼- —
Hypophosphite, NF, dms. lb 2.00 - —
Linoleate, liquid, 4.35% Mn., dms. lb .30½- —
solid, precip., 8.2% Mn., bbls lb .33½- —
Metal, cs., dlvd., East lb .30 - .32
Naphthenate, liquid 6% Mn., dms., frt. alld lb .25 - —
Oleate, precip., bbls lb .33½- —
Resinate, fused, 5½% Mn., dms lb .21¾- —
precip., dms lb .24½- —
Stearate, ctns., c.l. lb .33 - —
ton lots lb .39 - —
less ton lots lb .40 - —
Sulphate, fertilizer grade, 65%, bgs., c.l., dlvd. S. E. ton 75.50 - —
l.c.l., dlvd., S. E. ton 82.50 - —
feed grade, 75%, bgs., c.l., dlvd. S.E ton 87.50 - —
l.c.l., dlvd. S. E. ton 94.50 - —
Tallate, 6%, dms lb .21¾- —
Mangrove bark, E. Africa, 38% tannin, c.l., ex dock ton 79.00 - 80.00
So. American, 30% tannin, c.l., ex dock ton 58.50 - 60.00
Manna, flake, large, cs. lb 1.25 - 1.30
small, cs. lb .80 - .95
Mannitol, cont. dms., works lb .40 - .43
reagent, 50-lb. dms., works lb .85 - —
Marjoram, Bohemian, bls. lb .22 - .24
Chilean, bls lb .20 - .21
French, bls. lb .26 - .27
Peruvian bls. lb .19 - .19½
Matico leaves, bls. lb .25 - .35
Melamine, bgs., ton lots, works lb .33 - —
500 to 2,000-lb. lots, works lb .33½- —
less than 500-lb. lots, works lb .36½- —
Menadione, USP, bots. gram .06 - .06½
Menthol, natural, USP, Brazilian, cs. lb 6.10 - 6.25
Japanese, cs. lb 7.50 - 7.60
synthetic, USP, racemic, cns. lb 4.95 - —

Menthyl salicylate, tins lb 4.00 - 4.25
Mercaptobenzothiazole, bgs., fib. dms., ton lots, works, frt. alld lb .34 - .35
less ton lots, same basis lb .36 - .37
Mercaptobenzothiazyl disulphide, bgs., fib. dms., ton lots, works, frt. alld lb .42 - .42½
less ton lots, same basis lb .44 - .45½
Mercury, ammoniated (see White precipitated).
Bichloride (see Corrosive sublimate).
Chloride (see Calomel).
Cyanide, NF VIII, powd., fib. dms. lb 5.29 - —
Iodide, red, NF, fib. dms. lb 6.47 - —
yellow, NF, fib. dms. lb 6.72 - —
Meral (see Quicksilver).
Oxide, red, NF (see Red precipitate).
tech. (see Red, mercury oxide).
yellow, tech. (see Yellow, mercury oxide).
USP, fib. dms. lb 4.64 - —
Mesityl oxide, dms., c.l., dlvd. lb .13¾- .14¼
l.c.l., dlvd. lb .14 - .15
tanks, dlvd. lb .11½- .12½
Metaldehyde, dms., works lb .95 - 1.25
Meta-aminophenol, distilled, dms., ton lots lb 2.05 - —
less than ton lots lb 2.50 - —
Metachloroanilin, dms., c.l., frt. equald. lb .75 - —
l.c.l., same basis lb .80 - —
Metacresol, 99%, dms., c.l., works lb .73½- —
l.c.l., works lb .74½- —
Metanitroanilin, dms., frt. alld. lb 1.05 - —
Metanitroparatoluidin, bbls lb 1.54 - —
Metaphenylenediamine, sgs., frt. alld. lb .90 - —
Metatoluidine, bbls., c.l., works, frt. alld lb .78 - —
l.c.l., same basis lb .80 - —
tankcars, same basis lb .76 - —
Metatolylenediamine, fib. dms., frt. alld lb .94 - 1.00
Methanol, natural, denaturing grade, dms., c.l., frt. alld gal .78 - —
l.c.l., frt alld gal .79 - —
tanks, frt. alld gal .70 - —

Prices on natural methanol W. of Miss., 3c. higher.

synthetic, Zone 1, dms., c.l., dlvd. lb .44 - .45½
l.c.l., dlvd. gal .49 - .50½
tanks, dlvd. gal .32 - .33½
Zone 2, dms., c.l., dlvd. gal .49½- —
l.c.l., dlvd. within established whse. delivery zone gal .54 - —
tanks, dlvd. gal .35½- —

Synthetic methanol zones are: Zone 1 is all continental U. S. E. of eastern boundaries of Ariz., Idaho and Utah. Zone 2 is remainder of U. S. west of above state boundaries, comprising Ariz., Calif., Idaho, Nev., Ore., Utah and Wash.

Methenamine (see Hexamethylenetetramine)
Methionine, dextro-laevo, fib. dms., frt alld 50-lb or more lb 4.55 - —
feed grade, 98%, fib., dms., same basis lb 3.00 - —
97%, fib. dms., same basis lb 2.97 - —
Methoxychlor, 50% wettable powder, dealers, dms., cs., frt. alld lb .61 - .64
Methyl abietate, non-ret, dms., c.l., dlvd., zone 1 lb .19½- —
l.c.l., same basis lb .20 - —
Methyl abietate, hydrogenated, non-ret. dms., c.l., dlvd., zone 1 lb .20 - —
l.c.l., same basis lb .20½- —

Zone 1 includes New England and Middle Atlantic states, Va., W. Va., N. C., Ohio, Ky., Mich., Ind., Ill., Wis., St. Paul and Minneapolis, Minn.; St. Louis, Mo.; Miss., Ala., Ga., Fla., S. C. and Tenn.

Acetone, natural, dms., c.l., E. of Miss., frt. alld. gal .57 - —
l.c.l., same basis gal .63 - —
tanks, same basis gal .45 - —

Natural methyl acetone prices W. of Miss. 3½c. per gal. higher.

synthetic, dms., c.l., dlvd. E. gal .60½- —
l.c.l., dlvd. E. gal .72¼- —
tanks, dlvd. E. gal .54½- —

Synthetic methyl acetone E. territory is all States East of and including Colo., Mont., N. Mex. and Wyo. West territory is all States West of those four.

Acrylate, dms., c.l., and truckload works lb .45½- —
less than truckload works lb .46 - —
tanks, works lb .42¾- —
Alcohol (see Methanol).
Anthranilate, cns. lb 2.35 - 2.60
extra, cns. lb 2.65 - 4.45
Benzoate, cns., dms. lb .53 - .65
Bromide, jobbers, cyls., various sizes, works lb .47 - .61
Chloride, indust., cyl., works lb .18 - —
tanks, multi-unit works lb .14 - —
single-unit, works lb .11½- —
refrigerator mfrs., cyls., dlvd. lb .39 - .48
other consumers or service men, cyls., dlvd. lb .486 - —
Cinnamate, cns. lb 1.43 - 1.50
Cyclohexanol, dms., c.l., works lb .35½- —
l.c.l., works lb .36 - —
tanks, works lb .34 - —
Formate, refd., dms. lb .35 - .40
tech., non-ret. dms., any quantity, works lb .06 - —
tanks, works lb .07 - —
Lactate, dms., l.c.l., works lb .35 - —
Methacrylate, dms., c.l., and truckload, frt. equald., with Belle, W. Va., and Arlington, N. J. lb .36½- —
less than truckload, same basis lb .37 - —
tanks same basis lb .35 - —
Parahydroxybenzoate, USP, bots. lb 2.10 - 2.20
fib. dms. lb 1.90 - 2.00
Roseanilin chloride, NF, fib. dms. lb 5.40 - —
Salicylate, USP, dms., 500 lbs. lb .50 - —
cns., 50 lbs. lb .55 - —
Testosterone, USP, 100 gms. gm .98 - —
Methylal, refined, 97%, dms., c.l., works lb .12¾- —
l.c.l., works lb .13½- —
tanks, works lb .11 - —
tech., 92%, dms., c.l., works gal .83 - —
l.c.l., works gal .90 - —
tanks, works gal .70 - —
Methylamyl acetate, dms., c.l., dlvd. E lb .14¾- —
l.c.l., dlvd. E lb .15⅛- —
tanks, dlvd. E lb .13 - —
Ketone, dms., works lb 1.05 - —
Methylcellulose, special, vis., (1,500-4,000 cps.) 50-lb. bgs., c.l., works lb .78 - —
2,000 lbs., and more, same basis lb .80 - —
smaller lots, frt. allo. on 100 lbs. lb .85 - .87
standard vis. (15,400 cps.), 50-lb. bgs., c.l., alld lb .66 - —
2,000 lbs. and more, same basis lb .68 - —
smaller lots, frt. alld. on 100 lbs. lb .72 - .80

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AMMONIUM BICARBONATE	AMMONIUM CHLORIDE
SODIUM BICARBONATE	SODIUM ALUMINATE
Bleaching Powder	Sodium Cyanide, 96-98%
Methylene Chloride	Potassium Cyanide, 97-99%
Chlorinated Paraffin, 42% Cl_2	Copper Cyanide, 97-99%
Urea	Zinc Cyanide, 97-99%

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160 PINE STREET

Methylene blue, 100-lb. lots, kgs., frt. adjusted...lb. 3.23 - 3.60
smaller lots, kgs., same basis lb. 3.40 - 3.60
Chloride, industrial, dms., c.l., divd. E. lb. .13½ - —
Methylethylketone, dms., c.l., divd. lb. .12¾- .13¾
l.c.l., divd. ...lb. .13½- .14½
tanks, divd. ...lb. .11 - .12
Methylethylpyridin, dms., c.l., works. lb. .47½- —
l.c.l. works...lb. .48 - —
tanks, works ...lb. .46 - —
Methylheptincarbonate, bots.....lb.35.00 - —
Methylionone, A, cns.....lb. 6.55 - 8.80
D, cns. ...lb. 7.50 - 9.55
prime, cns. ...lb. 4.55 - 6.40
Methylisobutyl carbinol (See Carbinol methylisobutyl).
Ketone, dms., c.l., divd.....lb. .14¾- —
l.c.l., divd. ...lb. .15½- —
tanks, divd. ...lb. .13 - —
Methylnaphthyl, ketone, cans...lb. 3.00 - 3.15
Methylparaben (see Methyl parahydroxybenzoate).
Methylpentanediol (see Hexyleneglycol).
Methylphenylpyrazolone, 250-lb. dms., divd lb. 1.60 - 1.70
less than 250 lbs., dms., divd lb. 1.80 - 1.90
Methylthionine chloride (see Methylene blue).
Mica, dry-grd., biotite, extra fine, bgs., c.l., works, frt. alld. E. lb. .06¼- —
l.c.l., ex-whse. or frt. alld. E...lb. .07 - —
paint, plastic, 100 mesh, bgs., c.l., works...lb. .04¼- —
roofing, 20 to 80 mesh, works lb. .03 - .04
white, extra, fine, bgs., c.l., works, frt. alld. E...lb. .07¾- —
l.c.l., ex whse. or frt alld. E...lb. .08½- —
wet-grd., biotite, bgs., c.l., works, frt. alld., E lb. .06¼- —
l.c.l., ex whse. or frt. alld. E...lb. .07 - —
paint or lacq., bgs., c.l., works. frt. alld., E...lb. .07¾- —
l.c.l., ex whse. or frt. alld. E...lb. .08½- —
rubber, bgs., c.l., works, frt. alld. E...lb. .07½- —
l.c.l., ex whse. or frt. alld. E...lb. .08½- —
wallpaper, bgs., c.l., works, frt. alld. E...lb. .07¾- —
l.c.l., ex whse. or frt. alld. E...lb. .06¼- —
Mica, wet-grd., W. of Miss. R., ½c. higher; W. of Rockies, 1c. higher.
Milk powder, skimmed, roller, bbls., c.l...lb. .12 - .14
spray, bbls., c.l. ...lb. .14½- .16½
whole, roller, bbls., c.l....lb. No prices.
spray, bbls., c.l. ...lb. No prices.
Sugar, crude, bgs., c.l., works...lb. .18 - —
edible, bgs., works, 30,000-lb. tots, works lb. .24 - —
2,000-lb. lots, works lb. .2-¾- —
200-1,800-lb. lots, works lb. .25¼- —
Edible milk sugar in 6lb. dms., 1c. higher.
USP, 6lb. dms., 30,000-lb. lots, lots, works. lb. .29 - —
2,000-lb. lots, works .... lb. .29¾- —
200-1,800-lb. lots, works . lb. .30¼- —
USP milk sugar in bgs. 1c. lower
Mineral spirits (see Petroleum mineral spirits).
Molasses, blackstrap feed grade, tanks, New Orleans..gal. .11 - —
New York.....gal. .12 - .12½
Molybdenum metal, 80% Mo, powd., kgs lb. 3.00 Nom.
Trioxide, pure, kgs., works, basis Mo. content..lb. 1.40 - —
technical, kgs., works, basis Mo. content..lb. 1.15 - —
Piperonyl butoxide, dms., divd. E lb 5.00 - 5.30
Cyclonene, dms., divd. E. . lb. 4.20 - 4.50
Monobutylamine, dms., c.l., E. of Rockies lb. .54¾- —
l.c.l., same basis.....lb. .55¾- —
tanks, same basis.....lb. .53 - —
Monochlorobenzene, dms., c.l., frt. alld. or divd. E. lb. .10½- .11½
l.c.l., same basis .....lb. .11½- .12½
tanks, same basis.....gal. .09 - .10
Monochlorobenzene prices in the West, 1¼c higher.
Monoethanolamine dms., c.l., divd. E. lb. .29¾- —
l.c.l., same basis.....lb. .30¾- —
tanks, same basis.....lb. .28 - —
Monoethylaminonaphthylamine, dms., works lb. .83 - —
Monoethylamine, 70% contained amine, dms., c.l., divd. E. lb. .32 - —
l.c.l., divd. E.....lb. .33 - —
tanks, divd. E.....lb. .30¼- —
Monoethylaniline, dms., c.l., frt. alld. lb. .51 - .57
l.c.l., frt. alld .....lb. .52 - .58
tanks, frt. alld .....lb. .50 - .56
Monoethylorthotoluidin. bbls ....lb. .60 - —
Monoisopropylamine, dms., c.l., divd. lb. .29½- —
l.c.l., same basis.....lb. .30½- —
tanks, same basis .....lb. .28½- —
Monomethylamine, 25%-40%, dms., c.l., works, basis 100%, lb. .35 - —
l.c.l., same basis .....lb. .35½- .36
tanks, same basis.....lb. .31 - —
Monosodium fluoroacetate (see Sodium fluoroacetate monobasic).
Glutamate (see Sodium glutamate, monobasic.
Phosphate (see Sodium phosphate monobasic).
Mono-tertiary butylmetacresol, dms., c.l., works lb. .49 - —
l.c.l., works.....lb. .50 - —
tanks, works .....lb. .48 - —
Morphine, cns. .....oz.12.40 -12.60
Acetate, anhyd., cns.....oz. 9.95 -10.00
Hydrobromide, cns .....oz. 9.90 9.95
Hydrochloride, NF, cns.....oz. 9.90 9.95
Sulphate USP cns .....oz. 9.90 -10.05
Morpholine, dms., c.l., divd. E...lb. .54¾- —
l.c.l., divd. E.....lb. .55¾- —
tanks, divd. E.....lb. .53 - —
Mullein flowers, cs.....lb. 2.00 2.65
Leaves, bls.....lb. .18 - .21
Muss, natural Ionquin grains, bots. oz. No stocks.
synthetic, ambrette, 100-lb. lots, 6lb. dms lb. 5.35 - —
25-lb. lots, cns.....lb. 5.40 - —
5-lb lots, cns .....lb. 5.55 - —
ketone, 100-lb. lots, 6lb. dms. lb. 5.30 - —
25-lb lots cns.....lb. 5.35 - —
5-lb lots, cns.....lb. 5.50 - —
xylol, 100 lb. lots, 6lb. dms ..lb. 1.50 - —
25-lb lots, cns.....lb. 1.55 - —
5-lb. lots, cns .....lb. 1.70 - —
Mustard seed Calif. brown bgs., f.o.b. source lb. .12 - —
Danish, yellow, bgs.....lb. .10 - .10½
Dutch, yellow, bgs.....lb. .10 - .10½
English, yellow, bgs. .....lb. .11½- .12
German, yellow, bgs.....lb. .10 - .10½
Japanese yellow bgs .....lb. .10 - .10¼
Montana, brown, bgs., Sept.-Oct., f.o.b. source lb. .07 - —
oriental, bgs., Sept.-Oct., source lb. .05¾- —
yellow, bgs., Sept.-Oct., source lb. .06¾- —

Myrobalans, J1, ord. bgs., ex dock. ton.47.00 - —
Niacin (see Acid nicotinic).
assorted, ex dock.....ton.48.50 - —
crushed, bgs., ex dock.....ton.63.00 -66.00
Extract, Indian, solid, 53% tannin, ex dock plus duty.....lb. .07¼- —

N

Naphtha, painters (see Petroleum naphtha V. M. & P.).
Solvent (see S.
Naphthalene, crude, dom., 74° tanks, frt. equald lb. .0625- —
78°, dms., c.l., same basis lb. .0765- —
l.c.l., same basis ..... lb. .0790- —
tanks, same basis ..... lb. .0675- —
imported, 78°, large lots....lb. .035 - .039
refined, dom., industrial, bbls., c.l., frt. equald..lb. .11¾- —
bgs., c.l., same basis .. lb. .11¼- —
tanks, same basis.....lb. .10¾- —
balls, flakes, wholesalers, jobbers, bbls., c.l., same basis, lb. .14½- —
cs., 50 lbs., c.l., same basis lb. .14¾- —
1-lb. pkgs. c.l., same basis..lb. .17 - —
Neocinchophen, USP, dms., frt. adjusted lb. 7.00 - 8.00
Neomycin, 6lb. dms., 100-kilo lots, basis activity gm. .60 - —
1-kilo lots ..... gm. 1.20 - —
Nepheline syenite, glass, 24 mesh, bulk, works .....ton.14.25 - —
pottery, 200 mesh, bulk, works, N.Y. ton.18.25 - —
Nepheline syenite in bgs., $3 per ton higher than bulk.

Nerolin, cns.....lb. 2.25 - 2.65
Niacin (see Acid nicotinic).
Niacinamide (see Nicotinamide).
Nickel acetate, bbls., divd.....lb. .75 - .85½
Carbonate, bbls., divd.....lb. .71 - .78
Chloride, bbls., divd.....lb. .37 - .45
Formate, bbls., ton lots, frt. alld. lb. .64 - .65
Metal, electro cathodes, cs., works, lb. .60 - —
Nitrate, bbls., works.....lb. .36 - .37
Oxide, black, bbls.....lb. .69 - —
Sulphate, bgs., c.l., divd.....lb. .29 - —
l.c.l., divd.....lb. .29½- .37
Nicotinamide, USP, dms., frt. adjusted kilo.12.00 -12.30
Hydrochloride, dms., frt. adjusted kilo.11.50 -11.80
Nicotine sulphate, 40%, 50-lb. dms., dealers, frt. alld. over 70 lbs. dm.49.40 - —
10-lb. tins, dealers, frt. alld. on cases of 6 tin.10.83 - —
Niger seed, bgs., afloat.....lb. .11½- .11¾
Nikethamide, cbys.....lb. 7.50 - 8.00
Nitrobenzene, dbl. dist., dms., c.l., frt. alld. lb. .10½- .11¼
l.c.l., frt. alld.....lb. .11½- .12¼
tanks, frt. alld.....lb. .09½- .10½
Nitrocellulose, ester-soluble, 30-35 cps., ¼, ½, ¾, 5-6, 15-20, 30-40, 60-80, 125-175, secs., bbls., c.l., works. lb. .33 - —
l.c.l., same basis.....lb. .34 - .36
18-25 cps., bbls., c.l.....lb. .35 - —
l.c.l., same basis.....lb. .36 - .38
250-400, 600-1,000 secs., bbls., same basis lb. .42 - —
l.c.l., same basis...lb. .43 - .45

Methylene—Nux Vomica

Nitrocellulose, spirit-soluble, 30-35 cps., ¼, ½, sec., bbls., same basis..lb. .45 - —
l.c.l., same basis.....lb. 48 - 49
5-6, 40-60 secs., bbls., c.l., same basis lb. 44 - —
l.c.l., same basis .. lb. 43 - 47
Denatured alcohol used in the manufacture of nitrocellulose is charged extra. Drums extra but returnable.
Nitroethane, dms., divd. E. of Rockies, lb. 25 - —
Nitrogen solution, tanks, works, 37-40.8% N, basis 100%...ton.123.00 - —
Nitrogenous process tankage, bulk, works .....unit-ton. 5.00 - —
Sewage sludge, bulk, works unit-ton 3.75 - .50
Nitromethane, dms., l.c.l., divd E. of Rockies lb. 25 - —
Nitropropane 1, dms., divd. E. of Rockies lb. .23¼- —
2, dms., divd. E. of Rockies.. lb. .25 - —
Nonylphenol, dms., c.l., works lb. .33¼- —
l.c.l., works ..... lb. .33¾- —
tanks, works.....lb. .32¼- —
Nutgalls, Aleppo, bgs.....lb. .36 - —
Chinese, bgs.....lb. .36 Nom.
Istrian, bgs.....lb. .31 - —
Nutmeg, East Indian, whole, cs..lb. .33 - .34
shrivels, bgs.....lb. .32½- .33
West Indian, bgs.....lb. .26 - .26½
Nux vomica, bls.....lb. .08 - .10
powdered, bbls., bxs.....lb. .12 - .14

BHC
(TECHNICAL)

the Kiss of Death

DDT
(TECHNICAL)

from TENNESSEE

TENNESSEE PRODUCTS & CHEMICAL Corporation
NASHVILLE, TENNESSEE

The Kiss of Death is administered surely and quickly to the boll weevil and the boll worm by pesticides formulated with TENNESSEE's Benzene Hexachloride and DDT. Get in touch with TENNESSEE for prompt delivery of your BHC and DDT requirements.

TENNESSEE is also your basic source for Lindane and weed-killing 2,4-D and 2,4,5-T.

O

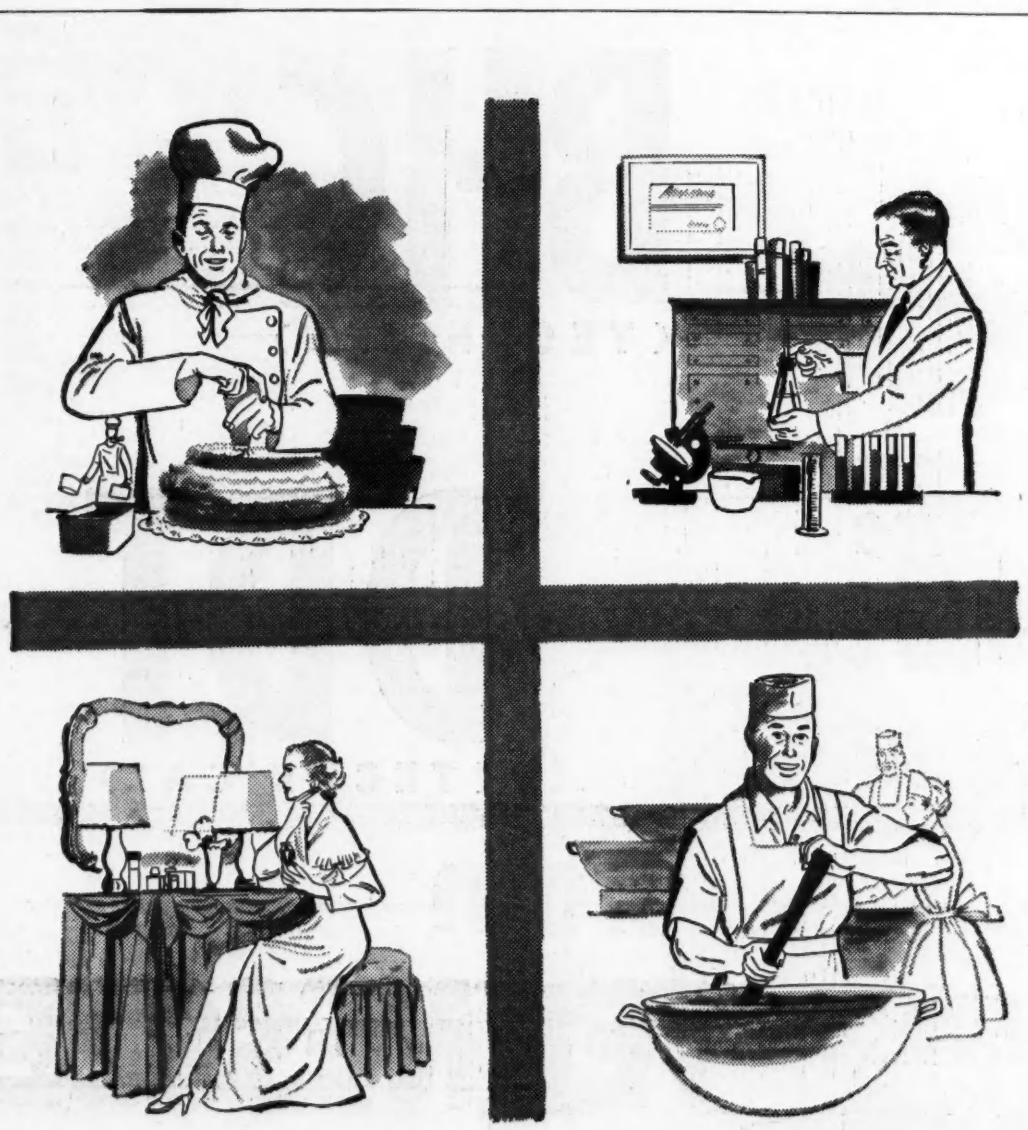
Octane, 100° 140°C., industrial grade, group 3, dms., c.l. gal. .19 - —
t.c.l. gal. .21 - .60
tanks gal. .15¼- —
100° C. b.r., Bayonne, N. J., tanks, gal. .18 - —
Octanol, normal, tech., dms., c.l., dlvd. lb. .35 - —
t.c.l., dlvd lb. .37 - —
tanks, dlvd lb. .32½- —
Octyl methacrylate, normal, dms., less than truckload, works. lb. .83 - —
Octylphenol, dms., c.l., works lb. .26¾- —
t.c.l., works lb. .27¼- —
tanks, works lb. .25¾- —

(Essential oils prices listed below are f.o.b. New York with differences between high and low quotations due to differences in quantity, quality or in individual suppliers' views.)

Oil, abies siberica, cns. lb. 2.40 - 3.00
Almond, artificial, bitter (see Benzaldehyde).
natural, bitter, F.P.A., bots lb. 3.40 - 3.75
NF, bots lb. 3.25 - 3.30
sweet, USP, dms., cns lb. .55 - .90
Allspice (see Oil, pimento).
Amyris, dms lb. 1.65 - 1.90
Angelica root, buts lb. 70.00 - 120.00
seed, bots lb. 55.00 - 95.00
Anilin (see A).
Anise, USP, dms lb. 1.90 - 2.75
Apricot, kernel, USP, dms lb. .45 - .46
Avocado, cns., dms lb. No prices.
Babassu, crude, tanks lb. No stocks
Oil, bay, NF, Puerto Rican, 50-55%, cns. lb. 1.55 - 1.90
55-60% cns lb. 1.65 - 2.10
West Indian, 50-55%, cns., dms lb. 1.45 - 2.23
Bergamot, artif., cns lb. 2.90 - 5.00
natural, NF, Italian, cns lb. 11.25 - 14.50
Birchtar, crude, cns lb. 1.75 - 2.00
rectified, NF, cns lb. 2.50 - —
Bois de Rose, Brazil, dms lb. 4.00 - 4.25
Mexican (see Oil, lignaloe wood).
Bone, dms., works lb. .65 - .70
Cajeput, redist., USP, cns lb. 2.10 - 2.85
tech., cns lb. 1.70 - 1.90
Calamus, cns lb. 10.00 - 20.00
Camphor, sassafrassy, dms lb. .26 - .40
waite, dms lb. .26 - .40
Cananga, native, cns lb. 10.50 - 11.50
rectified, cns lb. 11.00 - 13.75
Capsicum (see Capsicum oleoresin).
resin).
Caraway, NF, cns lb. 2.50 - 3.30
Cardamom, NF, bots lb. 35.00 - 40.00
Cassia, USP (see Oil, cinnamon, USP).
Castor, blown, dms., c.l. lb. .2700- —
l.c.l. lb. .2750- —
dehydrated, bodied, dms., c.l., lb. .3010- —
l.c.l. lb. .3060- —
tanks lb. .2910- —
unbodied, dms., c.l. lb. .2860- —
l.c.l. lb. .2910- —
tanks lb. .2760- —
hydrogenated, bgs. lb. .3260- .3380
No. 1, Brazilian, tanks lb. .22 - —
USP, dms., c.l. lb. .25 - —
l.c.l. lb. .2550- —
tanks lb. .2400- —
refined and deodorized, dms., c.l. lb. .2650- —
l.c.l. lb. .2700- —
tanks lb. .2550- —
Oil, castor, No. 3, tech., dms., c.l. lb. .2475- —
l.c.l. lb. .2525- —
tanks lb. .2375- —
sulphonated, 50% (48% fat), dms., l.c.l. lb. .16½- .17
75% (60-62% fat), dms., l.c.l. lb. .23 - .23½
Cedarleaf, cns., dms lb. 2.00 - 3.00
Cedarwood, cns., dms lb. .45 - .75
Celeryseed, bots lb. 16.50 - 21.00
Chamomile, blue, Hungarian, bots lb. 190.00 - 260.00
Chaulmoogra, NF, cns., dms lb. .55 - .70
Chinawood (see Oil, tung).
Cinnamon bark, USP, bots lb. 23.00 - 60.00
leaf, bots lb. 1.40 - 3.25
USP, cns., dms. (Cassia) lb. 5.50 - 7.50
Citronella, Ceylon, cns., dms lb. .55 - .90
Java, true, cns lb. 1.10 - 1.90
Java type, cns lb. .50 - 1.00
Clove, USP, from buds, cns., dms. lb. 9.50 - 11.25
Coconut, crude, tanks, N. Y. lb. .16½- —
Pac. Coast lb. .15 - —
refined, Cochin type, tax incl., ret. dms., l.c.l. lb. .25 - —
deodorized, tax incl., non-ret. dms., c.l. lb. .26¼- —
Cod, Newfoundland, dms lb. .10 - .10½
Codliver, USP, dms gal. 1.55 - 1.65
Copaiba, cns lb 2.00 - 2.50
Coriander, USP, bots lb. 17.00 - 23.50
Corn, crude, tanks, works lb. .14¾- —
foots (soapstock), acid, 95%, tanks, N. Y. lb. .06¾- —
refined, dms. lb. .19¾- .20¼
tanks lb. .18 - —
Costus, bots oz. 12.50 - 25.00
Cottonseed, crude, tanks, South-East lb. .14¾- —
Valley lb. .14¾- —
Texas lb. .14½- —
Oil, cottonseed, foots (soapstock), acid, 95%, tanks, N. Y. lb. .03 - —
raw, 50%, tanks, same basis. lb. .01½- —
salad, dms. lb. .19¾- .20¼
tanks lb. .18¼- —
Creosote (see Creosote, coaltar).
Croton, cns lb. 4.30 - 5.50
Crude (see Petroleum, crude).
Cubeb, cns lb. 4.50 - 7.25
Cumin, bots lb. 4.25 - 5.50
Cypress, bots lb. 5.30 - —
Degras (see D).
Dillseed, bots lb. 2.80 - —
Dillweed, dom., dms., bots lb. 4.00 - 4.25
Dip (see D).
Erigeron, cns. lb. 5.50 - 7.50
Eucalyptus, NF, rectified, 70-80%, dms. lb. .70 - 1.00
80-90%, dms lb. .85 - 1.25
Fennel, sweet, USP, cns lb. 2.30 - 3.25
Fir, Canada, cns lb. 2.65 - 3.10
Fish, refined, alkali, dms lb. .1410- —
kettle-bodied, dms lb. .1610- —
light-pressed, dms lb. .1260- —
tanks lb. .1100- —
Fishliver, crude, for feeds or concentrating, 4,000 to 12,000 A units per gm., dms., 1,000,000 units. .12 - .13¼
10,000 to 20,000 A units per gm., dms 1,000,000 units. .12 - .12¼
25,000 to 35,000 A units per gm., dms 1,000,000 units. .12 - .12¼
40,000 to 55,000 A units per gm., dms 1,000,000 units. .12 - .13
100,000 A units per gm., dms., 1,000,000 units. .12 - .15
200,000 A units per gm. dms. 1,000,000 units. .12 - .15
300,000 A units per gm., dms. 1,000,000 units. .12 - .15
400,000 A units per gm., dms., 1,000,000 units. .12 - .15
500,000 A units per gm. dms. 1,000,000 units. .12 - .15

Prices above are based on the USP XIV method of conversion, Morton-Stubbs Corrected E x 1950

Fusel (see F).
Garlic, pure, bots oz. 9.00 - 10.50
Gaultheria (see Oil, wintergreen).
Geranium, Algerian, cns lb. 10.25 - 11.00
Bourbon, cns lb. 9.75 - 11.75
Turkish (see Oil palmarosa).
Ginger, dist., bots lb. 13.00 - 15.00
Grapefruit, dms lb. 2.75 - 3.50
Grease, No. 1, dms lb. .11¼- .11¾
extra, winter, strained, dms lb. .12½- .13
prime, burning, dms lb. .14 - .14½
Guaiacwood, cns. lb. 1.60 - 1.90
Hemlock, cns lb. 2.10 - 2.50
Juniper berry, NF, VIII, bots lb. 2.75 - —
twice rectified, bots lb. 3.60 - 7.00
Tar, NF (see Juniper tar).
Wood, tech., cns lb. .42 - .50
Lard (see Oil, grease).
Laurel, dms., cns lb. 9.75 - 12.50
Lavandin, dms., cns lb. 2.10 - 2.50
Lavender, flower, USP, French, 30-32% ester, cns lb. 3.00 - 5.00
38-40% ester, cns lb. 5.25 - 7.25
40-42% ester, cns lb. 6.00 - 7.35
Spike, Spanish, cns lb. 1.50 - 1.85
Lemon, USP, Calif., cns., dms lb. 6.00 - 6.50
Messina, cns lb. 5.85 - 9.00
terpeneless, bots lb. 32.00 - 85.00
Lemongrass, cns., dms lb. 1.10 - 1.55
Lignaloe wood, Mexican, cns lb. 3.25 - 4.00
Lime, distilled, Mexican, cns lb. 6.00 - 6.85
West Indian, cns lb. 6.60 - 7.25
expressed, West Indian, cns lb. 7.75 - 9.50
terpeneless, bots lb. 45.00 - 90.00
Linseed, raw, dms., c.l., N. Y. lb. .1770- —
tankcars, f.o.b. Minneapolis lb. .1520- —
New York lb. .1645- —
tankwagon, N. Y. lb. .1675- —
Boiled, linseed oil, .006c. per lb. higher.
Mace, dist., cns., dms lb. 2.90 - 4.25
Mandarin, Floridian, dms lb. 3.00 - 5.35
Italian, cns lb. 6.50 - 8.50
Menhaden, crude, tanks, Balto. lb. .07½- —
Gulf ports lb. .07¼ Nom.
Mineral, white (see Oil, white, mineral).
Mirbane (see Nitrobenzene).
Mustard seed, nat., dms lb. .16 - .16⅛
synthetic, cns., dms lb. 1.60 - 1.85
Neatsfoot, 15°, dms lb. .33 - .34
20°, dms. lb. .32 - .33
30° dms. lb. .30 - .31
Neroli, NF, French, bots lb. 190.00 - —
petale, bots lb. 40.00 - 150.00
Nutmeg, USP dist., East Indian, cns., dms. lb. 3.10 - 3.65
West Indian, cns., dms. lb. 2.60 - 3.65
Ocotea cymbarum, dms lb. .65 - 1.00
Oiticica, liquid, dms lb. .25 - .25½
tankcars lb. .23¼- .23½
Oleo, extra, dms lb. .11¾- .12
Olibanum, bots lb. 5.50 - 7.65
extra fine, bots lb 8.00 - —
Olive, commercial, dms gal. 2.25 - —
edible, dms., duty paid lb. 2.70 - 2.75
foots, dms lb. .15 - .15½
Orange, sweet, dist., cns lb. .30 - .70
expressed, USP, Brazilian, cns., dms lb. No stocks.
Calif., cns., dms lb. .75 - 1.25
Florida, cns., dms lb. .70 - 1.00
Messina, cns lb. 3.85 - 4.50
West Indian, cns lb. 2.75 - 4.00
sesquiterpeneless, bots lb. 135.00 - 150.00
Origanum, Spanish, cns lb. 2.15 - 3.05
Palm, clarif., dms., spot lb. .1170- .1400
Palmarosa, cns lb. 5.50 - 6.75
Palm kernel, in bond, tanks lb. .16¾- —
Paraffin, pale, 100-110 vis., at 100°F. tanks, East Coast refinery gal. .14 - —
Patchouli, dms lb. 7.25 - 8.25
Peach kernel, USP (see Oil, apricot kernel)
Peanut, crude, tanks, Southeast. lb. .23 - —
refined, dms. lb. .28¾- .29
tanks lb. .26¾- —
Pennyroyal, USP, imported, cns lb. 1.75 - 2.40
Peppermint, natural, dms lb. 5.50 - 6.75
redist., USP, dms lb. 5.75 - 7.75
Persic, USP (see Oil, apricot kernel)
Petitgrain, Paraguay, cns., dms lb. 2.35 - 2.75
Pimento berry, NF, dms lb. 4.75 - 5.75
leaf, cns. lb. 2.65 - 3.00
Pine, dest., dist., dms., extra, c.l., works gal. .75½- —
l.c.l. gal. .76½- —
ex whse gal. .95½- —
steam dist., dms., ex whse., N.Y.C. lb. .143 - —
Pineneedle, Siberian (see Oil, abies siberica).
Putty, petroleum, dms., c.l., dlvd. lb. .11 - —
l.c.l., same basis lb. .12 - —
tanks, same basis lb. .10 - —
Rapeseed, tankcars lb. .17 Nom.
Red (see Acid, oleic).
Rice, bran, clarif., dms lb. .16½- .16¾
crude, tanks, dlvd. E lb. .14½- .15
Rose, natural, Bulgarian, bots oz. 50.00 - 62.25
Rosemary, Spanish, tech., cns., dms lb. .60 - .75
USP, cns., dms lb. .75 - .90
Rue, bots lb. 2.25 - 2.50
Safflower, dms., c.l., Atlantic coast. lb. .16¾- —
tanks, same basis lb. .15¾- —
Sage, clary, bots lb. 20.00 - 25.00
Dalmatian, cns lb. 6.75 - 7.50
Spanish, cns lb. 90 - 1.25
Sandalwood, NF, cns lb. 10.00 - 11.50
Sardine, crude, tanks, Pac. coast. lb. (Nonstock)



Wherever orange oil is used EXCHANGE Brand is preferred

For the true aroma and flavor of fine California oranges, use EXCHANGE Oil of Orange in your products.

EXCHANGE orange oil is made entirely from selected oranges from the groves of sunny California. This finer fruit, plus carefully controlled processing, gives you an oil of unmatched fragrance and uniform performance.

Specify EXCHANGE Oil of Orange for complete satisfaction. This superior orange oil has been known for more than a quarter-century for quality and uniformity.

Sunkist Growers
PRODUCTS DEPARTMENT
Ontario, California

Produced by
THE EXCHANGE ORANGE PRODUCTS CO.
Ontario, California

Distributed in the U. S. exclusively by
Dodge & Olcott, Inc.
180 Varick St., New York 14, N. Y.
Fritzsche Brothers, Inc.,
76 Ninth Ave., New York 11, N. Y.

Exchange
OIL OF ORANGE U. S. P.

Sassafras, artificial, dms.	lb.	.48	- .70
natural Brazilian (See Oil, ocotea cymbarum), domestic, USP, cns., dms.	lb.	1.90	- 2.25
Savin, cns	lb.	2.75	- —
Savory, cns.	lb.	No stocks.	
Sesame, recd., dms	lb.	.36	- .37
Shingle stain, tar distillate, dms., c.l., works	lb.	.33	- —
t.c.l., works	lb.	.35	- —
tanks, works	lb.	.23	- —
Snakeroot, Canada, cns	lb.	31.00	-33.00
Soybean, crude, tanks, mills	lb.	.13	- —
foots (soapstock), acid, 95%, tanks, N. Y.	lb.	.07	- —
raw, 50%, tanks, N. Y.	lb.	.02¾	- —
refined, alkali, dms., c.l.	lb.	.17	- —
l.c.l.	lb.	.17½	- .18
tanks	lb.	.15½	- —
refined, clarified, dms., c.l.	lb.	.16½	- —
l.c.l.	lb.	.17	- .17½
tanks	lb.	.15	- —
salad, dms.	lb.	.17¼	- .17½
tanks	lb.	.15¾	- —
Spearmint, USP, dms	lb.	8.25	- 9.25
Sperm, bleached, winter, 45°, dms.	lb.	.1420-	.1470
tankcars	lb.	.1270-	—
natural, winter, 45°, dms.	lb.	.1300-	.1350
tankcars	lb.	.1150-	—
Spruce, cns., dms	lb.	2.10	- 2.75
Sweet birch, USP, Northern, cns.	lb.	4.95	- 9.50
Southern, cns	lb.	2.00	- 3.25
Tall, crude, tanks, works	lb.	.02¼	- .02½
refined, dms., c.l., works	lb.	.06½	- .07¼
t.c.l., works	lb.	.06½	- .07½
tanks, works	lb.	.05	- .06
Tallow, acidless, dms.	lb.	.11	- .11½
Tansy, dms	lb.	8.25	- 9.00
Tar, pine, com'l, dms., extra, c.l., works	gal.	.44	- —
l.c.l., works	gal.	.50½	- —
whse.	lb.	.0678-	—
tanks, works	gal.	.35	- —
rectified, N.F. t.c.l., dms. extra, works, South.	gal.	.90	- —
whse N.Y.C.	gal.	1.00	- —
Tar acid (see T)			
Theobroma (see Cocoa butter)			
Thyme, NF, red, cns., dms.	lb.	1.70	- 3.75
white cns	lb	2.25	4.00
tech., white, cns	lb.	.40	- 1.85
Tung, dms., c.l., N. Y.	lb.	.30½	- —
l.c.l.	lb.	.31	- .31½
tanks, N. Y.	lb.	.29	- —
mills	lb.	.27¾	- —
Turkey red (see Oil, castor, sulphonated).			
Turpentine, NF, cns., dms.	lb.	.20	- .40
Veviter, Bourbon, cns	lb.	19.00	-21.50
Haitian, cns	lb.	15.00	-22.50
Java, cns	lb.	25.00	-35.00
Wheat germ, 5-gal. dms	gal.	34.00	-45.00
White mineral, tech., 50-65 vis., dms., c.l.	gal.	.51½	- .54½
t.c.l.	gal.	.56½	- .57½
65-75 vis., dms., c.l.	gal.	.52½	- .55½
t.c.l.	gal.	.57½	- .58½
NF, 80-90 vis., dms., c.l.	gal.	.53½	- .56½
t.c.l.	gal.	.58½	- .59½
125-135 vis., dms., c.l.	gal.	.59½	- .62½
t.c.l.	gal.	.64½	- .65½
145-155 vis., dms., c.l.	gal.	.66	- .68½
t.c.l.	gal.	.71	- .71½
175-185 vis., dms., c.l.	gal.	.69½	- .73
t.c.l.	gal.	.74½	- 76
USP, 200-210 vis., dms., c.l.	gal.	.72½	- .75
t.c.l.	gal.	.77½	- .78
345-355 vis., dms., c.l.	gal.	.77	- .80
t.c.l.	gal.	.83	- .85
Wintergreen, USP, nat., Northern, cns	lb.	7.15	-14.50
Southern, cns	lb.	3.20	-19.50
synthetic (see Methyl salicylate)			
Wood (see Oil, tung).			
Wormseed, cns	lb.	8.25	- 9.50
Wormwood, cns.	lb.	5.65	- 6.85
Ylang-ylang, bourbon, bots	lb	18.00	-30.00
extra, bots	lb.	30.00	-40.00
Madagascar bots	lb.	No stocks	
Oleostearin, bbls.	lb.	.07	- .07¼
Olivine aggregate, c.a., mines	ton.	7.00	9.50
crushed 8 mesh bulk, c.l. works	ton.	10.00	- —
paper, bgs, c.l., works	ton.	12.00	- —
Opium, USP, cns	lb.	19.20	-19.45
gran., USP, cns	lb.	21.65	-21.90
powd., USP cns	lb.	21.65	-21.90
Orange, cadmium, lithopone, bbls., frt. alld. E. of Rockies	lb.	1.20	- —
Chrome, CP, bbls., dlvd N. of Tenn and N. C., E of Miss. R., include Davenport, Tenn. and N. C. E. of Minneapolis, Rock Island, St. Louis, St. Paul	lb.	.31	- —

Chrome orange prices are ½c. higher dlvd. Ala., Fla., Ga., La. (Shreveport), 1¼c. Miss., N. C., S. C., Tenn., Dallas and Ft. Worth, Tex., 1½c. El Paso, Tex., 2c. Cedar Rapids, Des Moines, Kansas City, Lincoln, Omaha, St. Joseph; 1.6c. higher dlvd Pac. Coast, for Denver, Pueblo, Salt Lake City. Wichita prices are equalized with Chicago.

Dinitroanilin toner	lb.	1.30	- —
Mineral, American, bbls., l.c.l., ship't point, frt. alld.	lb.	.1860-	—
Molybdated, bbls	lb.	.44	- —
Orthonitroanilin toner, kgs.	lb.	1.15	- —
Persian, bbls	lb.	.65	- —
Orange flowers, bls	lb.	.55	- .56
Peel, bitter, Haitian, bls.	lb.	.12	- .14
sweet, bls.	lb.	.16	- .18
Oregano, Italian, bgs	lb.	.24	Nom.
Mexican, bgs., afloat	lb.	.15½	Nom.
Portugese, bgs., afloat	lb.	.20	Nom.
Orris root, Florentine, bls.	lb.	.29	- .30
powdered, bbls., bxs.	lb.	.35	- .38
Verona, bls.	lb.	.17	- .18
powdered, bbls., bxs.	lb.	.22	- .23
Orthoaminobiphenyl, dms., c.l., works	lb.	.22¼	- —
t.c.l., same basis	lb.	.33	- —
tanks, same basis	lb.	.27	- —
Orthoanisidin bbls	lb.	.68	- —
Orthochloroanilin, dms., c.l.	lb.	.70	- —
l.c.l.	lb.	.72	- —
Orthochlorobenzaldehyde, dms., works	lb.	1.20	- —
Orthochloroparanitroanilin, dms. dlvd	lb.	.88	- —
Orthochlorophenol, dms., c.l., frt. equald	lb.	.34½	- —
t.c.l., same basis	lb.	.35½	- —
Orthocresol, pure, 30° C., non-ret., dms., c.l., frt. equald.	lb.	.173	- —
t.c.l., same basis	lb.	.176	- —
ret. dms., c.l., same basis	lb.	.17	- —
t.c.l., same basis	lb.	.17½	- —
tanks, same basis	lb.	.16	- —
29°C., ret. dms., c.l., same basis.	lb.	.16	- —
t.c.l., same basis	lb.	.16½	- —
tanks, same basis	lb.	.15	- —
25-29°C., non-ret. dms., c.l., same basis.	lb.	.153	- —
t.c.l., same basis	lb.	.156	- —
tanks, same basis	lb.	.140	- —
Orthodichlorobenzene, dms. c.l., works, frt. alld. E. of Rockies	lb.	.11¼	- .13¾
t.c.l., same basis	lb.	.12¼	- .14¼
tanks, same basis	lb.	.09¾	- .11¾
Orthoisopropyl N phenylcarbamate (see IPC).			
Orthonitroanilin, dms	lb.	.50	- .56
Orthonitrochlorobenzene, dms.	lb.	.20	- .21
Orthonitrobiphenyl tech., dms., c.l., works	lb.	.14½	- —
t.c.l., works	lb.	.15	- —
tanks, works	lb.	.13	- —
Orthonitroparachlorophenol, cns	lb.	.75	- —
Orthonitrophenol, bbls, works	lb.	.94	- —
Orthonitrotoluene, dms., c.l., frt. alld.	lb.	.10	- —
t.c.l., frt. alld	lb.	.11	- —
tanks, frt. alld	lb.	.09	- —
Orthophenetidin, dms., works	lb.	1.00	- —
Orthophenylphenol, fib dms., works.	lb.	.20	- .44
Ortho-tertiary-amylphenol, dms., c.l., works	lb.	.43¾	- —
t.c.l., works	lb.	.46¾	- —
tanks, works	lb.	.41¾	- —
Orthotoluidin, dms., c.l., works	lb.	.23	- —
t.c.l., same basis	lb.	.24	- —
tanks, same basis	lb.	.22	- —
Osage orange, crystals, No. 1, bbls., t.c.l	lb.	.40	- —
extract, liquid, No. 1, bbls., t.c.l	lb.	.19	- —
Orthotolidin (see Tolidine Base)			
Ouabain, USP, bots	gram.	3.00	- 4.00
Ox bile, extract, powdered, USP 5-lb. lots or more	lb.	6.00	- —
not extract, powdered, 5-lb. lots or more	lb.	4.35	- —
Oxyquinolin sulphate, cns., 100 lb. lots, works	lb	4.75	5.00
smaller lots, works	lb.	4.92	- 5.17

P

Pancreas substance, assay 1:75 bots., 5-lb. lots or more	lb.	5.75	- —
Pancreatin, USP bots	lb.	2.50	- 3.00
Panthenol, bots., works, frt. adjust.	kilo.	90.00	- —
Papain, powdered, African, fib. dms.	lb.	6.50	- 7.50
Ceylon, ordinary, fib. dms.	lb.	5.00	- 5.50
white, fib. dms.	lb.	6.50	- 7.00
Papaverine, natural or synthetic hydrochloride, USP, cns., 25 oz. to 100 oz., lots	oz.	5.00	- —
smaller lots	oz.	5.05	- 5.20
Sulphate, cns	oz.	7.10	- 7.35
Paprika, Algerian, bgs.	lb.	.27	- .28
Czech, bgs.	lb.	.34	- .35
Moroccan, bgs.	lb.	.24	- .25
Spanish, bgs	lb.	.42	- .46
Para-anisidin, dms., works	lb.	.97	- —
Para-acetylaminobenzaldehyde thiosemicarbazone, dms., frt. adjusted	lb.	17.50	-21.00
Para-aminophenol, dms., frt. alld	lb.	.97	- .98
Parachloroanilin, dms., frt. alld., E. of Miss	lb.	.73	- —
Parachlorobenzaldehyde, dms., works J	lb.	1.33	- 1.36
Parachloro-orthonitroanilin, dms., frt. alld	lb.	.73	- .82
Parachlorophenol, dms., c.l., frt. equald	lb.	.34½	- —
t.c.l., same basis	lb.	.35½	- —
Paracresol, 98%, dms., c.l., dlvd	lb.	.49	- —
l.c.l., dlvd	lb.	.51	- —
Methylether, cns	lb.	2.15	- 2.50
Paracymene, dms., 50-gal. lots or more, works	gal.	2.50	- —
smaller lots	gal.	3.00	- —
Paradibromobenzene, bgs. 500-lb. lots, works	lb.	.53	- —
Paradichlorobenzene, dms., c.l., works	lb.	.14½	- —
t.c.l., same basis	lb.	.17	- —

Oil, Sassafras—Paraphenetidin

Paraffin, crude, scale, white, 121°-123°F, ASTM, solid, c.l., ref'y.	lb.	.053	- —
fully refined, 122-124 ASTM, loose, c.l., rfy	lb.	.0745-	—
125°-127°F, ASTM, loose, c.l., ref'y	lb.	.0745-	—
130°-132°F, ASTM, loose, c.l., ref'y	lb.	.0755-	—
132°-134°F, ASTM, loose, c.l., ref'y	lb.	.0755-	—
135°-137°F, ASTM, loose, c.l., ref'y	lb.	.0755-	—

Prices for paraffin in bags and ctns. c.l., 7 10c. per lb. higher; 1,000 to 9,999 lbs., 2.7c. per lb. higher and under 1,000 lbs., 3.7c. per lb. higher.

Paraformaldehyde, tech., 91%, powd., bgs., c.l., frt. alld.	lb.	.15½	- —
t.c.l., frt. alld	lb.	.17	- —
flake, bgs., c.l., frt. alld.	lb.	.12	- —
t.c.l., frt. alld	lb.	.13½	- —
USP X, fib dms., c.l.	lb.	.198	- —
10,000-lb. lots	lb.	.198	- —
1,000-lb. lots	lb.	.198	- —
smaller lots	lb.	.208	- —
Paraldehyde, tech., 98%, 55-gal. dms., c.l., works	lb.	.1385-	.1650
t.c.l., works	lb.	.1485-	.1750
tanks, works	lb.	.1200-	.1500
Paranitroanilin, dms., c.l., works, frt. alld	lb.	.46½	- —
t.c.l., works, frt. alld	lb.	.51½	- —
Paranitrochlorobenzene, kgs., works.	lb.	.25	- .27
Paranitrophenol, kgs., works, frt. equald	lb.	.50	- —
Paranitrotoluene, kgs., frt. alld	lb.	.30	- —
Paraphenetidin, dms., works	lb.	.90	- 1.00

Check these benefits SAFFLOWER OIL will give you:

INITIAL LIGHT COLOR

gives better appearance in the container. Bleachability equivalent to raw Linseed on exterior exposure.

SAVINGS ON STORAGE

when used in place of Linseed and Soybean oil. Possible to store one oil instead of three.

THROUGH-DRY

The final film of exterior and interior coatings made with Safflower oil has a more complete through-dry than Linseed.

IMPROVED COLOR RETENTION

The almost complete absence of linolenic glycerides brings about color stability equivalent to or better than Soybean formulations.

FLEXIBILITY

Safflower oil produces films having flexibility intermediate between Linseed and Soybean oils.

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INDUSTRIAL OILS

Linseed, Tung, Safflower, Soya, Oiticica, Castor, Sardine. Also Coconut Oil, Lard, Walnut Oil and others.

Paraphenylenediamine—Phenolphthalein

Paraphenylenediamine, redistilled, dms., works	lb.	2.00	—
tech., refd., dms., same basis	lb.	1.10	1.35
Paraphenylphenol, bgs., c.l., works,	lb.	.37½	—
l.c.l., same basis	lb.	.42	—
Para-tertiary butylphenol, bgs., c.l., works	lb.	.27½	—
l.c.l., same basis	lb.	.28½	—
Parathion, spray powder, 15%, dealers, tins	lb	.53	.59
tech., dms., works	lb	1.50	—
Para-tertiary amylphenol, ctns., c.l., works	lb.	.26	—
l.c.l., works	lb.	.27	—
tanks, works	lb.	.25	—
Paratoluenesulphonamide, flake, bbls., frt. alld	lb.	.64	.66
powd. bbls. works	lb.	.70	—
solid, bbls., frt. allo	lb.	.61	—
Paratoluidin flake, bbls., frt. alld.	lb.	.64	—
solid, bbls., frt. alld	lb.	.60	.61
Paris green, dealer, distributor, dms., c.l., works, frt. alld. on 96 lbs. or over	lb.	.36	.40
l.c.l., same basis	lb.	.37	.53
Passion flower herb, bls	lb	.25	29
Peanut meal, 45%, old proc., sacked, mills	ton.	67.50	76.00
solvent, same basis	ton.	65.00	66.00
Pectin, citrous, NF, powd., bbls	lb	2.05	2.06
tech., powd., bbls	lb	1.50	—
Penicillin, crystalline, potassium, sterile, bulk, 1,000,000 units		.09	—
Procaine, bulk, 1,000,000 units		.09	—
Sodium, sterile, bulk, 1,000,000 units		.09	—
Pennyroyal herb, bls	lb	.45	.50
Pentachlorophenol, dms., c.l., works, frt. equald	lb.	.21	—
l.c.l., same basis	lb.	.24	30
truckload, 20,000 lbs. min. same basis	lb.	.21¼	—
Pentaerythritol, tech., bgs. c.l., works	lb.	.34	—
l.c.l., works	lb.	.35	.36
Di- and tri-isomers (see Dipentaerythritol and Tripentaerythritol)			
Pentane, industrial, tanks, group 3,	gal	12	.13½
Pepper, black, Malabar, spot, bgs	lb.	1.36	—
red, Carolina, long, bgs	lb.	.44	.45
Gondar, bgs.	lb.	.22	.23
Japanese hontakas, bgs.	lb.	.46	.47
birdseyes, bgs., afloat	lb.	.64	—
Louisiana longs, bgs	lb.	.45	Nom.
Mississippi sports, bgs., source, new crop	lb	.45	Nom.
Mombasa, bgs.	lb.	.43	.44
Nigerian, bgs.	lb.	.32	.33
Tukish, bgs.	lb.	.29	.30
Unganda, bgs	lb.	.36½	Nom.
Zanzibar, bgs.	lb.	.43	.44
white, bgs.	lb.	1.41	1.42
Peppermint leaves, USP, bls., dms	lb	.65	66
imported, bls.	lb	1.05	Nom.
Pepsin, NF, 1:3,000 bulk	lb.	3.75	3.90
Perchloroethylene, dms. c.l., or truckloads, works	lb.	.11	—
dlvd. E	lb.	.12	—
l.c.l., works	lb.	.11¾	—
dlvd. E	lb.	.12½	—
tanks, works	lb	10½	—
Peru balsam, dms	lb.	1.38	1.65
Petrolatum, amber, dms., c.l., refy.	lb.	.04¾	.05⅝
l.c.l., dlvd.	lb.	.06½	—
tanks, refy	lb.	.03½	.04⅛
cream, dms., c.l., refy	lb.	.06	.07⅛
l.c.l., dlvd.	lb.	.08¼	—
tanks, refy	lb.	.04¾	.05⅝
extra, amber, dms., c.l., refy	lb.	.05	.05⅞
l.c.l., dlvd.	lb.	.06¾	—
tanks, refy	lb.	.03¾	.04⅜
USP, white, lily, dms., c.l., refy.	lb	.06⅜	.07⅛
l.c.l., dlvd	lb	.08⅝	—
tanks, refy	lb	.05⅛	.06
soft, dms., c.l., refy	lb.	.06⅝	.07¾
l.c.l., dlvd.	lb	.08¼	—
tanks, refy	lb.	.05⅜	—
snow, dms., c.l., refy	lb.	.06⅞	.08
l.c.l., dlvd.	lb.	.09⅛	—
tanks, refy	lb.	.05⅝	.06⅛
yellow, soft, dms., c.l., refy	lb.	.05	.05⅞
l.c.l., dlvd.	lb.	.06⅛	—
tanks, ref'y	lb.	.05⅜	—
Petroleum crude, bulk at wells, California	bbl.	1.42	3.53
Illinois	bbl.	2.63	2.77
Kentucky	bbl	2.42	2.83
Louisiana-Arkansas	bbl.	2.14	2.90
Montana	bbl	2.23	2.75
Oklahoma-Kansas	bbl.	2.23	2.65
Pennsylvania, lower field	bbl.	3.91	—
Upper field	bbl.	4.40	—
Texas, East	bbl.	2.25	—
Gulf coast	bbl.	2.38	2.95
North, North-Central	bbl.	2.23	2.65
Panhandle	bbl.	2.23	2.65
West	bbl.	2.10	2.65
Wyoming	bbl.	1.28	2.65
Fuel oil, bunker C, No. 6, California heavy tanks, refinery	bbl.	1.80	2.10
Petroleum, fuel oil, bunker C, No. 6, eastern, tanks, Baltimore, Md.	bbl.	2.16	—
Boston, Mass.	bbl.	2.17	—
Charleston, S. C.	bbl.	2.08	—
Jacksonville, Fla.	bbl.	2.05	—
New York Harbor	bbl.	2.13	—
Norfolk, Va.	bbl.	2.11	—
Philadelphia, Pa.	bbl.	2.13	—
Portland, Me.	bbl.	2.17	—
Providence, R. I.	bbl.	2.14	—
Savannah, Ga.	bbl.	2.08	—
Diesel, tanks, refinery, California	gal.	.1025	.133
Pennsylvania	gal.	.0925	.1025
Furnace, tanks, refinery, Arkansas, No. 2	gal.	.08375	—
No. 3	gal.	.08	—
N. Y. Harbor, No. 2	gal.	.0925	.0975
group 3, No. 1	gal.	.0775	.0875
No. 1, straw	gal.	.09	.09375
No. 2, straw	gal.	.0725	.08125
range	gal.	.0875	—
Pennsylvania, western, No. 1	gal.	.1075	.1135
No. 2	gal.	.1075	.1120
No. 3	gal.	.1025	.1050
Lacquer diluent, California, 170-225° F., b.r., tankwagon, ex tax, f.o.b. Los Angeles.	gal.	.183	—
East coast, tanks, N. J. and N. Y. refinery	gal.	.18	—
group 3, benzol-type, tanks, refinery	gal.	.13125	.13625
toluol-type, tanks, refinery	gal.	.12125	.12375
Mineral spirits, regular, California, tanks, ex tax, f.o.b. San Francisco	gal.	.174	—
East coast, tanks N.J., N.Y.	gal.	.16	—
Group 3, tanks	gal.	.10875	—
tankwagon, Baltimore	gal.	.155	—
Boston	gal.	.165	—
Buffalo	gal.	.185	—
Newark	gal.	.17	—
New York	gal.	.165	.17
Philadelphia	gal.	.155	—
Pittsburgh	gal.	.19	—
Providence	gal.	.165	—
Rochester	gal.	.20	—
Syracuse	gal.	.21	—
Washington, D. C.	gal.	.195	—
specially refined, tanks, f.o.b. Watson, Calif	gal.	.244	—
f.o.b. Borgentown, Tex.	gal.	.24	—
f.o.b. Houston, Texas.	gal.	.24	—
f.o.b. Wood River, Ill.	gal.	.2625	—
tank transport, f.o.b. Carteret, N. J	gal.	.336	—
tankwagon, N. Y. and N. J.	gal.	.37	—
Naphtha, cleaners, East Coast, tanks, N. J. and N. Y. refinery	gal.	.16	—
Group 3, tanks	gal.	.11375	—
tankwagon, Newark	gal.	.17	—
New York	gal.	.17	—
Philadelphia	gal.	.165	.17
high flash, 140°, group 3, refinery, tanks	gal.	.134	.1425
high-solvency, 200-235 b.r., 37-38° C., mixed anilin pt., tanks, refinery or East Coast	gal.	.25½	—
25-26° C., m.a.p., tanks, same basis	gal.	.24	.30½
270-370 b.r., 78-81°C., m.a.p., tanks, same basis	gal.	.29	—
49°C, m.a.p., tank, same basis	gal.	.32	—
26-27 C., m.a.p. tanks, same basis	gal.	.24	.31
300-400 b.r., 28°-32° C., m.a.p., tanks, same basis	gal.	.24	.30½
340-410 b.r., 36° C., m.a.p., tanks, same basis	gal.	.24	—
32° C., m.a.p., tanks, same basis	gal.	.24	.30½
27° C., m.a.p. tanks, same basis	gal.	.34½	—
350-425 b.r., 32° C., m.a.p., tanks, same basis	gal.	.30½	—
V.M.&P., tanks, ref'y California, 245-360 b.r., Los Angeles.	gal.	.168	—
Portland, Ore.	gal.	.174	—
San Francisco	gal.	.173	—
Seattle, Wash.	gal.	.174	—
East coast N. J., N. Y., tanks	gal.	.17	—
Group 3, tanks	gal.	.11875	—
tankwagon, Boston	gal.	.175	—
Newark	gal.	.185	—
New York	gal.	.185	—
Philadelphia	gal.	.165	—
Pittsburgh	gal.	.21	—
Solvent, rubber, California, tanks, ex tax, San Francisco	gal.	.173	—
East coast, N. J., N. Y.	gal.	.17	—
Group 3, tanks	gal.	.11875	—
Stoddard, California, tankwagon, ex-tax, Los Angeles	gal.	.173	—
East coast, N. J., N. Y., tanks	gal.	.16	—
Group 3, tanks	gal.	.11375	—
Pennsylvania, western, tanks,	gal.	.14	.15
tankwagon, Boston	gal.	.18	—
Newark	gal.	.17	—
New York	gal.	.17	—
Philadelphia	gal.	.165	.17
Pittsburgh	gal.	.19	—
Syracuse	gal.	.21	—
Sulphonate, oil soluble, 70%, sulphonic content, non-ret. dms., c.l., works	lb.	.2040	—
l.c.l., works	lb.	.2065	—
tanks, works	lb.	.1850	—
60-62% sulphonic content, non-ret. dms., works	lb.	.175	.20
l.c.l., works	lb.	.185	.202
tanks, works	lb.	.145	.185
50-55% sulphonic content, non-ret. dms., works	lb.	.153	—
l.c.l., works	lb.	.165	—
tanks, works	lb.	.125	—
Phenobarbital, USP, dms., 100 lbs	lb.	4.50	4.70
Phenobarbital-sodium, USP, dms	lb.	4.50	4.70
Phenol, 90-92% (cresol, 8-10%), non-ret. dms., c.l., frt. alld. E. of Rockies	lb.	.18¾	—
l.c.l., same basis	lb.	.19½	—
ret. dms., c.l., same basis	lb.	.18	—
l.c.l., same basis	lb.	.18½	—
tanks, same basis	lb.	.17	—
82-84% (cresol, 16-18%), non-ret. drums, c.l., same basis,	lb.	.18¼	—
l.c.l., same basis	lb.	.19	—
ret. dms., c.l., same basis	lb.	.17½	—
l.c.l., same basis	lb.	.18	—
tanks, same basis	lb.	.16½	—
39° or above, tar distilled, non-ret., dms., c.l., same basis.	lb.	.19¼	—
l.c.l., same basis	lb.	.20	—
tanks	lb.	.17½	.18
ret dms., c.l., same basis	lb.	.19	—
l.c.l., same basis	lb.	.19½	—
tanks, same basis	lb.	.17½	.18
Phenol, USP, synthetic, dms., c.l., same basis	lb.	.19¾	—
l.c.l., same basis	lb.	.20½	—
tanks, same basis	lb.	.18	—
Phenolphthalein, USP, or yellow bbls., dms., 2,000-lb. lots	lb	1.10	—
smaller lots	lb.	1.12	1.17

INDUSTRIAL USERS
know there's never a question about UNIFORMITY with Esso Petroleum Solvents. Exacting modern refining methods give Esso Solvents closely controlled uniformity for better processing.

YOU GET ALL 6 OF THESE IMPORTANT FEATURES WITH ESSO SOLVENTS

1. **Uniformity** — made in modern refineries from carefully selected crude oil sources.
2. **Economy** — A storage facility near you for low freight cost and quick delivery.
3. **Controlled evaporation** — available in a wide range of evaporation rates with precise characteristics to meet your requirements.
4. **Solvency** — Esso aliphatics and Solvesso aromatics cover both high and low solvency ranges.
5. **Modern handling methods** — separate tank storage, pumping lines, tank cars and trucks, are used throughout in all Esso Solvent handling operations.
6. **Multi-storage availability** — Water terminals in industrial centers.

Esso Solvents: versatility and dependability with controlled high quality.

ESSO
PETROLEUM SOLVENTS

SOLD IN: Maine, N. H., Vt., Mass., R. I., Conn., N. Y., N. J., Pa., Del., Md., D. C., Va., W. Va., N. C., S. C., Tenn., Ark., La.

ESSO STANDARD OIL COMPANY
Boston, Mass. — New York, N. Y. — Elizabeth, N. J. Philadelphia, Pa. — Baltimore, Md. — Richmond, Va. Charleston, W. Va. — Charlotte, N. C. — Columbia, S. C. Memphis, Tenn. — New Orleans, La.

Phenothiazin, NF, fib. dms., c.l., frt. adjusted lb. .50 - —
over 2,100 lbs., same basis lb. .52 - —
less than 2,100 lbs., same basis, lb. .54 - —
Phenyl acetate, dms., 100 lb. lots, works lb. .50 - —
Salicylate (see Salol)
Phenylacetaldehyde solution, 50%, bots lb. 2.40 - 2.70
100%, bots lb. 4.00 - 4.65
Phenylacetamide 125-lb. dms., works, lb. 1.10 - —
smaller dms., works lb. 1.15 - 1.10
Phenylalamine dextro-laevo, dms., works lb. 27.00 - 37.50
Phenylcarbethoxy pyrazolone, 250-lb. fib dms., dlvd. E lb. 3.60 - —
less than 250-lb. dms., dlvd. E lb. 4.00 - —
Phenyldiethanolamine, dms., c.l., dlvd. lb. .40 - —
l.c.l., dlvd. lb. .41 - —
Phenylethanolamine, dms., c.l., works lb. .69½ - —
l.c.l., same basis lb. .70 - —
Phenylethyl acetate, bots lb. 1.55 - 1.95
Phenylethylphenyl acetate, bots lb. 4.05 - 4.50
Phenylhydrazin base, CP, bots lb. 3.00 - 3.07
Hydrochloride commercial, kgs., works lb. 1.75 - —
purified, bots., works lb. 5.12 - —
Phenylmethylpyrazolone (see Methylphenylpyrazolone).
Phloroglucinol, comi., fib. dms., works lb. 6.40 - —
C.P., bots., fib. dms lb. 17.00 - 17.25
tech., fib. dms works lb. 10.45 - —
Phosgene, 150-lb cyls, works lb. 27½ - —
Phosphate defluorinated (see under D)
Phosphate rock, Curacao, Atlantic ports ton. 45.00 - —
Florida, land pebble, run-of-mine, washed, dried unground, bulk, c.l., mines, 70%-68%, b.p.l., c.l., same basis long ton. 4.88 - —
72-70%, b.p.l., c.l., same basis long ton. 5.48 - —
73%-74%, b.p.l., c.l., same basis long ton. 6.48 - —
77%-78%, b.p.l., c.l., same basis long ton. 7.48 - —
finely ground, 65%, b.p.l., basis 30% P_2O_5 minimum, bulk, c.l., mines short ton. 5.15 - —
68%, b.p.l., basis 31%P_2O_5 minimum, mines short ton. 5.35 - —
70%, b.p.l., basis 32% P_2O_5 minimum, mines short ton 5.70 - —
plus or minus usual bonus adjustment clause for oil and labor. Prices on entirely pebble 50c. per long ton higher.
Phosphorus, red, amorphous cs., fib. dms. lb. .46 - .47
yellow, cns., works lb. .44 - .45
dms., c.l., works lb. .48 - .50
l.c.l., works lb. .40 - —
Oxychloride, dms., c.l., works lb. .43 - —
l.c.l., dms., works lb. .14 - —
tankcars, works lb. .17 - —
Phosphorus pentasulphide, solid, dms., c.l., works lb. .11½ - —
l.c.l., dms., works lb. .13 - .13½
Pentoxide, dms., c.l., works lb. .13½ - —
l.c.l., works lb. .16½ - —
Sesquisulphide, tins, cs., works lb. .29 - —
dms., export lb. .31 - .36
Trichloride, dms., c.l., works lb. .14 - —
l.c.l., works lb. .17 - —
tankcars, works lb. .12½ - —
Phthalic anhydride, bgs., c.l., works, frt. equald lb. .22 - —
l.c.l., same basis lb. .23 - —
tanks same basis lb. .21½ - —
Phthalic anhydride in bags., ½c. per pound higher.
Phthalimide, 97%-98%, dms. works, frt. alld lb. .65 - —
Phthalylsulphacetamide, fiber dms., lb. 5.00 - 5.50
Pichi leaves, bgs lb. .16 - .17
Picoline (See Alpha, Beta and Gamma Picoline)
Pilocarpine hydrochloride, NF, bots oz. 5.25 - —
Nitrate, USP, bots., vials oz. 5.10 - —
Pimento, Guatemala, bgs lb. .20 Nom.
Jamaica, bgs lb. .28 - .29
Mexican, bgs lb. .22 - .22½
Pinetar, retort, dms., incl. c.l., works lb. .0511 - —
l.c.l., same basis lb. .0563 - —
whse. lb. .0678 - —
Pinkroot, bls lb. 2.95 Nom.
Piperazine hexahydrate, French Co. dextro, bots kilo. 8.00 - 8.50
Piperidine, 98%, dms., frt. equald. lb. 2.90 - 3.00
Pipsissawa herb (see Prince's pine)
Pitch, burgundy, domestic, dms., mc. c.l., l.c.l. works 100 lbs 9.80 - 10.25
Coaltar, 140°-150° F., m.p., dms., c.l., works ton. 41.20 - 42.09
Cottonseed, dms., works lb. .02¼ .03
Hardwood, paper bgs., c.l., works. lb. .02 - —
Linseed, dms lb. .06 Nom.
Petroleum (see Asphalt, petroleum).
Pine, dms., inc., l.c.l., works, South 100 lbs. 7.50 - —
Soybean, dms., works lb. .05 Nom.
Tall, dms., works lb. .03¾ - .04½
Plaster of Paris (see Gypsum).
Platinum metal, works oz. 90.00 - 93.00
Pleurisy root, bls lb 45 50
Podophyllum resin, NF, dms lb. 11.00 - 11.20
Pokeroot, bls. lb. .20 - .22
Polyoxyethylene sorbitan monostearate, dms. 20,000 lbs., works lb. .43 - —
10,000-20,000-lb. lots, works, lb. .45 - —
lb. .45 - —
smaller lots, works lb. .48 - .50
Tristearate, dms., 20,000 lbs., works lb. .43 - —
10,000-20,000-lb. lots, works, smaller lots, works lb. .48 - .50
Polystyrene, colors, special, bgs., over 20,000 lbs., frt. alld. lb. .35½ - .38
10,000-19,999 lbs., same basis lb. .36 - .36½
5,000-9,999 lbs., same basis, lb. .36½ - —
standard, bgs lb. .35½ - .36
crystals, heat-resistant, bgs., c.l. lb. .34 - —
l.c.l. lb. .34½ - —
standard, bgs., c.l. lb. .32½ - —
l.c.l. lb. .33 - —
Polystyrene in non-returnable fib., dms., ½c. per lb. higher.
Pomegranate root bark, bgs lb. .75 - .76
Poppy flowers, bgs lb. 1.20 - 1.25
Seed, Dutch, bgs lb. .15½ - .16
Polish, bgs. lb. .15½ - .16
Turkish, bgs. lb. .12½ - .13
Potash, caustic, sew-chloride, flake, 85% basis 90% KOH, dms., c.l., works 100 lbs. 10.00 - —
l.c.l. works 100 lbs 10.75 - —
liquid, 45% dms., c.l., works 100 lbs 4.625 - —
l.c.l. works 100 lbs 5.125 - —
tanks, works 100 lbs 4.30 - —
solid, 90%, dms., c.l., works 100 lbs. 9.40 - —
l.c.l. works 100 lbs. 10.15 - —

Potash regular, flake, 88-92%, dms., c.l., works 100 lbs. 8.50 - —
l.c.l., works 100 lbs. 9.25 - —
liquid, 45% basis, dms., c.l., works 100 lbs. 3.875 - —
l.c.l. same basis 100 lbs. 4.65 - —
tanks, same basis 100 lbs. 3.55 - —
solid, 88-92% dms., c.l., works 100 lbs. 7.90 - —
l.c.l., same basis, works 100 lbs. 8.65 - —
Potassium abietate, dms., works lb. .25 - .28
Acetate, NF, dms lb. .31 - .36
Bicarbonate, USP, gran., dms lb. .22 - —
powd., dms. lb. .24 - —
Bichromate, bgs., c.l., works lb. .14½ - —
l.c.l., same basis lb. .14¾ - .15½
Potassium bichromate in crums ½c. higher.
Bitartrate (see Cream of tartar).
Bromate, bbls., 1,000 lbs or more, lb. .50 - .52
25-200-lb. lots lb. .55 - .57
Bromide, USP, gran., bbls., kgs. lb. .34 - —
Carbonate, tech., calcined, bbls., c.l., works 100 lbs. 8.25 - —
l.c.l., same basis 100 lbs. 9.30 - —
hydrated, 83-85%, bbls., c.l., works 100 lbs. 6.75 - —
l.c.l., works 100 lbs. 7.50 - —
USP, gran., bbls., dms lb. .16½ - .18
powd., bbls., dms lb. .21 - .23
Chlorate, cryst., dms., c.l., works lb. .09¾ - —
l.c.l., works lb. .10 - .11
powd., dms., c.l., works lb. .10¼ - —
l.c.l., works lb. .10¾ - .11¾
export, dms., 1 to 10 tons, works lb. .13 - .13¾
NF, gran., dms lb. .32 - .33

Potassium chloride, USP, cryst., dms lb. .21 - .23
gran., dms lb. .15 - .17
powd. dms lb. .24 - .26
Chromate, tech., bgs lb. .33½ - .36
Citrate, USP, gran. dms lb. .37½ - .38½
powder dms lb. .40½ - .41½
Cyanide, dms., 500-lb. lots or more, works lb. .55 - —
less than 500-lb. lots, works lb. .57 - —
Fluoborate, fib. dms., c.l., works, lb. .30 - —
l.c.l., works lb. .31 - —
Fluoride, dms., works lb. .32 - —
Gluconate, dms lb. .75 - .79
Glycerophosphate, 75% solution, cbys lb 2.15 - 2.25
Guaiacsulphonate, NF, dms lb. 2.10 - 2.30
Hydroxide, tech (see Potash caustic).
USP, pellets 100 lb dms 1 to 100 dms lb. .28½ - .33
Hypophosphite NF ton lots or less fib dms lb 1.00 - 1.03
Iodide, dms lb. 2.40 - 2.42
Manure salt, 22% K_2O, bulk, mines unit-ton. .21 - —
Metabisulphite gran., dms lb. .20 - .21
powd., dms. lb. .25 - —
Muriate, dom., 50-60% K_2O, bulk, Carlsbad, N. M. unit-ton. .43 - —
Trona, Cal. unit-ton. .53 - —
50-51% K_2O paper bgs., Carlsbad, N. M ton. 25.75 - —
Nitrate (see Saltpeter).
Oxalate, neutral, tech., fine gran., bbls., rms lb. .30 - .32

Potassium pentaborate, gran., bgs., c.l., works ton. 184.00 - —
ton lots, bbls. ex whse ton 261 00 - —
less ton lots, bbls. ex whse ton 266 00 - —
Powdered Potassium pentoborate, $10.25 per ton higher
Perchlorate, dms. c.l. works lb. .14 - —
l.c.l. works lb. 14½ - 15¼
Permanganate tech. dms., works, lb. 22½ - 23½
USP dms. works lb. 24¾ - 30¼
Persulphate, dms., c.l., works lb. .18 - .19
l.c.l., works lb. 20 - 22
Phosphate tetrabasic bbls. works, lb. 16½ - 18¼
Prussiate red, kgs lb. 60 - 63
yellow, dms., ton lots lb. 22½ - —
smaller quantities lb. 23 - —
kegs lb 28 - —
Silicate, glass, bgs., c.l., works 100 lbs. 14.70 - —
l.c.l. 100 lbs 15 20 - —
solution, clarified, 29° Be, 1:2.5, dms., c.l., works 100 lbs 5.50 - 5.65
l.c.l., 5 dms. or more, works 100 lbs 6.25 - 6.65
tanks, works 100 lbs. 5.15 - 5.30
tech., 29° Be, 1:2.5, dms., c.l., works 100 lbs. 4.85 - —
l.c.l., dms., works 100 lbs. 5.35 - —
tanks works 100 lbs 4.50 - —
32.5° Be., dms., c.l., works 100 lbs. 4.95 - —
l.c.l. works 100 lbs. 5.45 - —
tanks, works 100 lbs. 4.60 - —
40.5° Be., 1:2.0, dms., c.l., works 100 lbs. 5.45 - 6.70
l.c.l., 5 dms., works, 100 lbs 5.95 - 7.85
tanks, works 100 lbs. 5.10 - 6.35

Calco

PARA AMINOSALICYLIC ACID

is generally accepted as a valuable adjunct to tuberculosis therapy.

Used in conjunction with streptomycin, Para Aminosalicylic Acid makes possible a very substantial prolongation of the period of chemotherapy, with added benefit to the patient. This is because of its own distinct antibacterial effect, which retards the multiplication of streptomycin-resistant strains of the bacillus. In some non-pulmonary forms of tuberculosis, PAS alone has been recommended as a valuable therapeutic agent. Under certain circumstances in lung disease, the administration of PAS alone provides antibacterial control while streptomycin is reserved for a period of critical need.

The Calcium Salt of PAS is now available (U. S. Patent pending) and has been found to offer several distinct advantages.

BULK PHARMACEUTICALS

Sulfadiazine U.S.P.*
... Sulfa Drug of Choice
Sulfamerazine U.S.P.*
Sulfanilamide U.S.P.
Sulfathiazole U.S.P.*
Sulfapyridine N.F.*
Sulfabenzamide*
Sulfaguanidine U.S.P.
Sulfamethazine (for human use)
Sulfacetamide*
Aminoacetic Acid N.F.
2-Amino-5-Nitrothiazole
Bishydroxycoumarin U.S.P.
Calcium Pantothenate (Dextro)
Choline Chloride
Tri Choline Citrate
Choline Dihydrogen Citrate
Choline Bitartrate
Cinchophen N.F.*
Folic Acid U.S.P.
Neocinchophen U.S.P.
Methylene Blue U.S.P.
Nicotinic Acid U.S.P.
N-acetyl-p-aminophenol
Nicotinamide U.S.P.
Nicotinamide HCl
Para Aminosalicylic Acid**
Phenothiazine N.F. (regular and drench grades for veterinary use)
Phthalylsulfacetamide
Propylthiouracil U.S.P.
Pyridoxine HCl
Riboflavin U.S.P.
Certified Colors for Pharmaceutical Use

*and sodium salt
**with sodium or potassium salt

In keeping with long-established policy, the above products are offered to ethical pharmaceutical and veterinary Manufacturers only.

American Cyanamid Company

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TORONTO: ROYAL BANK BUILDING

Potassium Silicofluoride—Red, KB Base

Potassium silicofluoride, bbls., works, lb. .09 - .09½
Stannate, dms., frt. alld. E ..... lb. .696 - .752
Sulphate, agricultural, 90-95% K_2SO_4, bulk, works, basis 90% ton.36.25 - —
NF VII cryst., dms ..... lb .31 - .33
gran., dms. ..... lb. .18½- —
powder, dms. ..... lb. .16½- .17
Sulphocyanide, cryst., NF (see Potassium thiocyanate)
Thiocyanate, NF, cryst., dms., 100-lb. lots or less..lb. .87 - .94
tech., works ..... lb. .79 - —
Titanate, ctns., c.l., works ..... lb. .12½- —
5-ton lots, works ..... lb. .12¾- —
1-ton lot or less, works .. lb. .13 - —
Potassium-magnesium sulphate bulk, works basis 40% K_2SO_4, 18% MgO ton.16.00 - —
Potassium-sodium tartrate (see Rochelle salt)
Potassium-titanium fluoride, fib. dms., works..lb. .39 - .40
Oxalate, bbls., dms.....lb. .85 - .95
Potassium-zirconium fluoride, fib. dms., c.l., works lb. .50 - —
l.c.l., works ..... lb. .52½- .55
Pregnenolone, bots.....gm. .85 - —
Acetate, bots.....gm. .75 - —
Prickly ash bark, bls..... lb. .55 Nom.
Berries, bgs. ..... lb. .70 - .75
Prince's pine herb, bls ..... lb. .60 - .61
Procaine hydrochloride, USP, dms., frt. alld lb. 3.10 - 3.40
Progesterone, USPS, 100 gms., bots. gm. 1.03 - —
Propane, commercial grade, tanks, group 3 gal. .04 - —
Propionaldehyde, dms., 5,000 lbs. or more, custom contract lb. .60 - —
Propyl acetate, normal, dms., c.l., dlvd lb. .123 - —
l.c.l., dlvd ..... lb. .135 - —
tanks, dlvd ..... lb. .1075- —
Aldehyde (see Propionaldehyde).
Gallate, dms., 2,000 to 100 m. lots, works lb. 3.90 - 4.40
Parahydroxybenzoate, USP, dms ..... lb. 2.30 - 2.40
Propylene dichloride, dms., c.l., dlvd. E. lb. .0645- .095
l.c.l., same basis ..... lb. .0950- .1050
tanks, same basis ..... lb. .07 - .08
Oxide, dms., c.l., dlvd. E ..... lb. .19½- .20½
l.c.l., dlvd E ..... lb. .20½- .21½
tanks, dlvd. E ..... lb. .17½- .18½
Propyleneglycol, industrial, dms., c.l., dlvd. E lb. .19¼- .21¼
l.c.l., same basis ..... lb. .20¼- .22¼
tanks, same basis ..... lb. .17½- .18½
USP, dms., c.l. dlvd. E ..... lb. .20¼- .21½
l.c.l., same basis ..... lb. .21¼- .22¼
tanks, same basis ..... lb. .18½- .19½
Methylether, dms., c.l., dlvd. E lb. .20 - —
l.c.l. same basis ..... lb. .21 - —
tanks, same basis ..... lb. .18½- —
Propylthiouracil, bots., 50-kilo lots or more kilo.55.00 - —
smaller lots ..... kilo.55.10 -55.30
Psyllium seed, black, bgs..... lb. .26 - .27
blonde, bgs. ..... lb. .18 - .20
husks, bgs..... lb. .48 - .52
Pulsatilla herb, bls ..... lb. .52 - .53
Pumice, com. grd., coarse to fine, 0, ½, 1, 1½, 2, 3 bgs., ton lots lb. .03½- .04¼
smaller, lots ..... lb. .03⅞- .04½
Pumice, Italian, silk-screen, coarse, bags, ton lots..lb. .06½- —
fine, bgs., ton lots ..... lb. .04 - —
sun dried, coarse, bgs ton. lots lb. .02½- .04
fine, bgs., ton lots ..... lb. .02½- .04
Pumice in bbls. is ½c per lb. higher.
Pumpkin seed, bgs ..... lb. .18 - .20
Pyrethrin, synthetic (see Allethrin).
Pyrethrum flowers, fine grd. 0.9% pyrethrins bbls works. lb. .50 - —
powder, 1.3% pyrethrins, bbls., works lb. .71½- —
liquid (20 to 1) basis 2 grams pyrethrins per 100cc, odorless base, bbls., works..gal. 9.75 -10.50
(30 to 1) basis 3 grams pyrethrins per 100 cc odorless base, bbls., works gal.15.75 - —
oleoresin dewaxed 20% for aerosol bombs, dms. works.lb.11.00 -12.00
Pyridin, denaturing, dms.. c.l., works and frt. equald.gal. 2.77 - —
l.c.l., same basis..... gal. 2.80 - —
refd., 2°, non-ret. dms., l.c.l., same basis..lb. 1.15 - —
Pyridoxine hydrochloride, 100 gram lots gram. .55 - —
Pyrites, Canadian, works..long-ton. 3.00 - 5.00
Pyrocatechol (see Catechol).
Pyrogallol, NF..... lb. 3.25 - 3.43
Pyrophyllite, insecticide grade, 200 mesh, bgs., c.l., mines ton.13.00 -13.50
No. 3, 200 mesh, bulk, c.l., mines ton.11.00 - —
rubber grade, 140 mesh, bgs. c.l., mines ton.11.50 -12.00
Pyrophyllite, standard, 200 mesh, bulk, c.l., mines..ton.12.50 - —
230 mesh, bulk, c.l., mines.ton13.50 - —
325 mesh, bulk, c.l., mines ton 16 75 - —
Standard and No. 3 pyrophyllite in paper bgs. $3 to $3.50 per ton extra.
Pyroxylin scrap, opaque, amber, dms., works. lb. .15 - —
black, dms., works ..... lb. .12 - —
mixed, mottled, dms., works. lb. .11 - —
white, china, ivory, dms., works..lb. .12 - .15
dense, dms., works ..... lb. .12 - .15
transparent, colorless, dms., works..lb. .25 - —
transparent, colorless, dms., works..lb. .25 - —
colors, dms., works ..... lb. .14 - —
shavings, opaque, amber, cs., works..lb. .11 - —
mixed colors, dms., works. lb. .11 - —
USP, bots. .....lb. 9.50 - —

Q

Quebracho extract, clarified, grd., 70% tannin, bgs., c.l., lb. .16¼- .16¾
liquid, 35% tannin, bbls., works, tanks, same basis..... lb. .08¼- —
Quebracho extract, solid, clarif., 64% tannin, bgs., c.l., exdock, duty extra..lb. .12⅞- —
ordinary, 63% tannin, bgs., c.l., same basis lb. .11 31/64 —
Quebracho extract prices are based on $20.40 freight and $1 insurance per long ton.
Queen of the meadow root, bgs lb. .25 - .26
Quercitron extract, crystals, No. 1, bbls., l.c.l. lb. .40 - —
liquid, No. 1, bbls., l.c.l.... lb. .19 - —
Quicksilver, flasks (76 lbs. net) flask.195.00 -200.00
Quinidine, NF, V cryst., cns., 100-oz. lots oz. 1.90 - —
powd., precip., cns., 100-oz. lots oz. 1.85 - —
Sulphate, USP, cns., 100-oz. lots oz. 1.00 - —
Quinine, NF, cns., 100-oz. lots..oz. .54 - —
Bisulphate, USP, cns., 100-oz. lots..oz. .37½- —
Dihydrochloride, USP, cns.....oz. .54 - —
Ethylcarbonate, NF, cns., 100-oz. lots..oz. .63½- —
Hydrobromide, NF, cns., 50-oz. cns. oz. .47½- —
Hydrochloride, USP, cns., 100-oz. lots..oz. .47½- —
Phosphate, NF, cns., 100-oz. lots.oz. .61 - —
Salicylate, NF, cns., 100-oz. lots.oz. .55 - —
Sulphate, USP, cns., 100-oz. lots.oz. .42 - —
Quinine and Urea hydrochloride, NF, cans..oz. .56 - —
Quinolin, dms., c.l., frt. equald..lb. .50¾- —
l.c.l., same basis.....lb. .51¼- —
tanks, same basis .....lb. .50 - —

R

R salt, paste, basis, 100%, dms., frt. alld lb. .83 - —
powd., basis, 100%, frt. alld lb. .88 - —
Raspberries, dried, bbls.....lb. 1.30 - 1.35
Red, BON acid maroons, pure, bbls. lb. 1.75 - —
resinated, bbls.....lb. 1.50 - —
arylid, deep shades, bbls.....lb. 3.60 - —
light shades, bbls.....lb. 2.75 - —
maroon, bbls.....lb. 3.60 - 5.90
Cadmium, CP dark shade, bbls., frt. alld. E. of Rockies lb. 4.30 - —
light shade, same basis ...lb. 4.00 - —
medium shade, bbls., same basis lb. 4.25 - —
medium-light shade, bbls., same basis lb. 4.05 - —
orange shade, bbls., same basis lb. NP - —
lithopone, deep shade, bbls., same basis..lb. 1.93 - —
light shade, bbls., same basis, lb. 1.70 - —
maroon shade, bbls., same basis..lb. 2.05 - —
medium shade, bbls., same basis..lb. 1.85 - —
medium-light shade, bbls, same basis..lb. 1.77 - —
orange-red shade, bbls., same basis..lb. 1.64 - —
Red cadmium lithopone, all shades, in smaller pkgs., 5c. per lb. higher; all prices are 1c. per lb. higher ex whse. Los Angeles and San Francisco.
Carmine No. 40 (see Carmine).
Dyes (see Dyes, coaltar).
Eosin toner, bbls., works.....lb. 1.60 - —
Indian, dom., pure, bgs., Bethlehem, Easton, E. St. Louis, N. Y..lb. .12¾- —
Iron oxide, pure, 98% ferric oxide, bgs., c.l., works lb. .12¾- —
l.c.l., works .....lb. .13 - —
natural 75%-85% ferric oxide, bgs., l.c.l., Bethlehem, Pa.; Copley, O.; Easton, Pa.; E. St. Louis..lb. .06 - —
Lake C, toner, alizarin, bbls., works lb. 1.10 - 1.20
Lithol, toner, bbls., works....lb. .79 - —
rubine, toner, pure, bbls., works lb. 1.50 - —
resinated, bbls., works... lb. 1.40 - —
Virginia-type, bbls., works lb. 1.40 - —
Maroon toner, MNPT, kgs., works. lb. 3.60 - —
10,000 lbs, works..lb. 4.22 - —
smaller lots, works .....lb. 4.24 - —
Metallic, bbls., c.l., works.....lb. .02½- —
l.c.l., works.....lb. .02¾- —
Oxide (see Red, iron oxide)
Persian gulf, bgs., c.l., works lb. .06¾- —
l.c.l., works.....lb. .07 - —
Para toner, bbls.....lb. .95 - —
Chlorinated, kgs.....lb. 1.10 - 1.15
Phloxin toner (see Red eosin toner).
Rhodamine, molybdated, PMA., kegs..lb. 5.35 - —
tungstated, PTMA, works, kegs, lb. 6.35 - —
Spanish, oxide, bbls., c.l., ex dock lb. .05¾- —
l.c.l., ex dock.....lb. .06 - —
ex whse., New York..lb. .06½- —
Toluidin toner, deep shades, kgs., works..lb. 1.50 - —
light shades, kgs., works....lb. 1.50 - —
Turkey, bbls., works.....lb. .60 - —
Tuscan, bbls., frt. equald.....lb. .24½- .25
Venetian, 15%, bgs., works....lb. .0350- .037
20%, bgs., works.....lb. .0475- —
25%, bgs., works.....lb. .0525- —
30%, bgs., works.....lb. .0550- —
35%, bgs., works.....lb. .0575- —
40%, bgs., works.....lb. .0625- —
Vermilion, Amer., bbls.....lb. .32 - —
Quicksilver, ctns.....lb. 3.64 - —
Watchung-type, bbls.....lb 1.95 - —
Red KB base (see Chloro (4)-2-toluidine).

DRYMET*

THE ECONOMICAL DETERGENT SILICATE

Cowles DRYMET, anhydrous sodium metasilicate, is the most highly concentrated form of sodium metasilicate available. It is more economical to use, on the basis of both Na_2O (alkalinity) and SiO_2 (silicate) than any other type of hydrated or anhydrous detergent silicate, either compounded or by itself. DRYMET contains no water of crystallization.

CRYSTAMET*

THE MEDIUM pH DETERGENT SILICATE

Cowles CRYSTAMET is a pure, perfectly white, free-flowing granular pentahydrate sodium metasilicate with the normal 42% water of crystallization. Suggested for compounding when it is desirable to lower the concentration of a finished product. Readily soluble—chemically stable—easy to handle. Can be used on medium pH jobs.

DRYORTH*

THE HEAVY-DUTY DETERGENT SILICATE

Cowles DRYORTH, anhydrous sodium orthosilicate, is a powerful, speedy, heavy-duty cleaner with valuable penetrating and wetting-out properties, reinforced dirt-removing power and unusual emulsifying action. It is an anhydrous, free-flowing powdered silicate containing not less than 60% Na_2O, which may also be used as an economical constituent of high pH cleaning compounds.

DRYSEQ*

THE ALL-PURPOSE DETERGENT SILICATE

Cowles DRYSEQ, anhydrous sodium sesquisilicate, is a medium pH alkaline cleaner which will do fast, dependable work at a low cost to the user. It is a white, free-flowing powder, quickly and completely soluble in hot or cold water—containing 56.75% Na_2O—making it an economical base material for compounding.

PROMPT SHIPMENTS FROM CONVENIENT WAREHOUSE STOCKS

We'll be glad to send you our DRYMET File Folder containing complete technical information and suggested formulations.

*Reg. U. S. Pat. Off.

Cowles CHEMICALS

COWLES CHEMICAL COMPANY

7016 Euclid Avenue • Cleveland 3, Ohio

Red precipitate, NF, powd., fib. dms. lb. 4.37 - 4.41
Red saunders, NF, powd., bbls. lb. .35 - —
Rennin, NF, powder lb. 6.25 - —
Resorcinol, tech. grade, dms., c.l., works lb. .77½-
l.c.l., works lb. .78½- —
USP, cryst., dms., works lb. 2.75 - —
powd., dms., works lb. 2.95 - —
Monoacetate, NF, dms. lb. 3.25 - 3.45
Rhatany root, bgs. lb. .15 - .16
Rhodinol, 5-lb. cans lb. 40.00 -56.00
Rhubarb root, China, whole, cs. lb. .65 - .85
powd., bbls. lb. .75 - .90
India, whole, bgs. lb. .30 - .35
powdered, bbls. lb. .38 - .40
Riboflavin, USP bots., dlvd kilo. 100.00 - —
readily soluble, bots., dlvd kilo. 100.00 - —
Rice bran, concentrate, dms. Cedartown, Ga. lb. .79 - —
Rochelle salt, USP, gran., powd., dms., c.l. lb. .32½- —
5,000-lb. lots, dms., c.l. lb. .32½- —
smaller lots lb. .33½- .38¼
Rose flowers, pale, bls. lb. .55 - .65
Rosemary flowers, bgs. lb. .95 - .96
Leaves, French, bls. lb. .11 - .11½
Portuguese, bls. lb. .07 - .07½
Spanish, bls. lb. .09 - .09½
Rosin, gum and wood (see Naval Stores, Protective Coatings market).
Rotenone, CP, bbls., works lb. 20.00 - —
tech., bbls. works lb. 16.50 - —
Rottenstone (see Tripoli)
Rue herb, bls. lb. .35 - .40
Rutin, NF, 25-kilo lots, fib. dms. kilo. 25.00 -40.00
10 to 25-kilo lots, fib. dms. kilo. 27.50 -40.00
1 to 10-kilo lots, fib. dms kilo. 30.00 -40.00
Ryania, 100% powd., bgs., works lb. .20 - —

S

Sabadilla seed, powd., bbls. lb. .60 - —
activated, ground with lime, bbls. lb. .35 - .36
Saccharin, USP, gran., soluble, dms., 1000-lb. lots lb. 1.60 - —
smaller lots lb. 1.70 - 1.80
powd., soluble, insoluble, dms., 1000-lb. lots lb. 1.65 - —
smaller lots lb. 1.75 - 1.95
Saffower, Egyptian, ols. lb. .60 - .65
Saffron, Mexican bls. lb. .95 - .96
Spanish, USP, tins lb. 22.00 -23.50
Safrol, dms. lb. .72 - 1.20
Sage, Cretan, bls. lb. .10 - .11
Cyprus, bls lb. .09 - .09½
Dalmatian, bls. lb. .38 - .39
Greek, bls lb. .10 - .11
Italian, Officinalis, bls. lb. .16 - .17
Spanish, stemless, bls. lb. .13 - .13½
Syrian, bls. lb. .10 - .10½
Turkish, bls. lb. .10 - .11
Sago flour, raw, bgs. lb. .07¾- .08
refined, bgs. lb. .09 - .09¼
Sal soda (see Soda sal).
Salol, NF, gran., bbls., kgs. lb. 1.05 - —
fib. dms lb. 1.07 - 1.08
Powdered salol, 2c. higher.
Salt, rock, paper bgs., c.l. 100 lbs. .98 - —
Table, vacuum, common, fine, paper bgs., c.l. 100 lbs. 1.12 - —
Saltcake, dom., bulk, works, 100% Na_2SO_4 basis ton. 17.00 - —
Saltpeter, cryst., bbls., 10-ton lots. 100 lbs. 14.40 - —
smaller lots 100 lbs. 14.65 -14.90
powd., bbls., 20-ton lots 100 lbs. 10.75 —
smaller lots 100 lbs. 12.00 -12.50
gran., bbls., 20-ton lots 100 lbs. 9.75 —
smaller lots 100 lbs. 11.10 -11.50
NF, gran., dms lb. .09¾- .17¾
Saltpeter in bags, 50c. per 100 lbs. less; in kegs, $1 more.
Sandalwood chips, East Indies, bgs., lb. .65 - .66
powd., dms lb. .75 - .76
Sanguinarine nitrate, bots. oz. 4.75 - 5.50
Santonin, NF, dom., dms., cryst., powd., cns lb. 76.50 -80.00
imported, cryst., powd., cns lb. 76.50 -80.00
Saponin, No. 1, 100-lb. dm. lb. 2.75 - —
Sarsaparilla root, dom., bls. lb. .45 - .50
Honduras, bls. lb. .38 - .40
Mexican, bls. lb. .17 - .25
Sassafras root bark, ord., bls. lb. .35 - .42
select, bls. lb. .60 - .65
Savory, French, bls. lb. .21 - .24
Spanish, bls. lb. .14 - .16
Saw palmetto berries, bgs. lb. .32 - .38
Scammony resin, tump, cns. lb. 1.95 - 2.20
powd., cns lb. 2.05 - 2.30
Schaeffers salt, paste, dms., frt. alld. lb. .77 - —
powder, bgs., frt. alld lb. .80 - —
Scopolamine hydrobromide, USP, bots. oz. 13.00 -14.50
Seidlitz mixture, bbls., 5,000 lbs lb. 30½- —
smaller lots lb. .31 - .32
Selenium, powd., dms., dlvd. lb. 4.25 - 4.75
Senega root, bls. lb. 1.95 - 2.10
Senna leaf, Alex., half-leaf, bls. lb. .17 - .18
sifting, bgs. lb. .15 - .18
Tinnevelly, No. 1, bls. lb. .18 - .20
No. 2, bls. lb. .16 - .18
No. 3, bls. lb. .13 - .15
powdered, bls., bxs. lb. .17 - .19
Pods, bls. lb. .24 - .25
Serpentaria root, bls. lb. 4.85 - 5.00
Sesame seed, Nicaragua, hulled, bgs. lb. .19 - .22
natural, bgs. lb. .12½- .13
Turkish, bgs. lb. .15 Nom.
Shellac, bleached, bonedry, bgs., 1,500-lb. lots lb. .43 - —
bbls., 1,500-lb. lots lb. .44 - —
kgs., 1,500-lb. lots lb. .46 - —
refined, bgs., 1,500-lb. lots lb. .53 - —
bbls., 1,500-lb. lots lb. .54 - —
kgs., 1,500-lb. lots lb. .56 - —
Bonedry shellac prices for less than 1,500-lb. lots, 1c. per lb. higher for all packages.
Lemon, No. 1, bgs. lb. .30 - .32
No. 2, bgs. lb. .28 - .32
Superfine, bgs., 10-bg. lots lb. .28 - .29
TN, bgs., 10-bg. lots lb. .25 - .27
Shellac in 1 to 9 bg. lots, 1c. more.
Shingle stain oil (see Oil, shingle stain).
Silica, amorph., dry-grd., 325 mesh, bgs., c.l., lll., works ton. 25.00 - —
l.c.l., works ton. 30.00 -40.00
Hard-quartz, 99½%, 325 mesh, bgs., c.l., works ton. 20.00 - —
l.c.l., works ton. 25.00 -30.00
140 mesh, bgs., c.l., works. ton. 15.60 - —
l.c.l., works ton. 20.00 - —
Silicon tetrachloride, tech., dms., c.l., works lb. .16 - —
l.c.l., works lb. .20 - .28½
Silver bullion, ingots, cs. lb. .65¼- —
Cyanide, 6b. dms., 2,500-oz. lots oz. .77¾- —
1,000-oz. lots oz. .77¾- —
500-oz. lots oz. .77¾- —
100-oz. lots oz. .78¼- —

Silver nitrate, CP, cryst., bots., 2,500-oz. lots oz. .54¾- —
1,000-oz. lots oz. .56 - —
500-oz. lots oz. .56½- —
250-oz. lots oz. .57 - —
USP granular silver nitrate, 4c. per oz. higher.
Proteinate, mild, USP, bots., dms., 1,000-oz. lots oz. 1.05 - —
strong, NF, bots., dms., 1,000-oz. lots oz. 1.00 - —
Simaruba bark, bls. lb. .90 Nom.
Skullcap herb, Eastern, bls. lb. .50 .65
Western, bls lb. .30 .35
Skunk cabbage root, bls. lb. .50 - .60
Slate flour, bgs., c.l., works ton. 9.55 -13.00
l.c.l., ex whse ton. 21.00 -27.35
Sloe berries, bgs lb. .24 .28
Smalt, black, ctns lb. .15 - —
Blue, ctns lb. .18 - —
Snakeroot, Canada bls. lb. .75 - .80
Soapbark, bls. lb. .22 - .24
crushed, bls., bbls. lb. .27 - .29
powd., bbls. lb. .30 - .35
Soda ash, dense, 58% paper bgs., c.l., works 100 lbs. 1.75 - —
l.c.l., stock points 100 lbs. 2.85 4.62
bbls., c.l., works 100 lbs. 2.30 - —
l.c.l., stock points 100 lbs. 3.35 4.12
bulk, c.l., works 100 lbs. 1.45 - —
light, 58% paper bgs., c.l., works 100 lbs. 1.65 - —
l.c.l., stock points 100 lbs. 2.75 4.52
bbls., c.l., works 100 lbs. 2.20 - —
l.c.l., stock points 100 lbs. 3.25 5.02
bulk, c.l., works 100 lbs. 1.35 - —
Caustic, flake, powd., 76%, c.l., works 100 lbs. 3.75 - —
l.c.l. stock points 100 lbs. 4.95 6.77
Soda, liquid, 50%, sellers' tanks, works, dry basis 100 lbs. 2.55 - —
50% rayon type tanks, works, dry basis 100 lbs. 2.65 - —
70% sellers' tanks, works, dry basis 100 lbs. 2.65 - —
rayon type, tanks, works, dry basis 100 lbs. 2.75 - —
solid, 76% dms. c.l., works 100 lbs. 3.35 - —
l.c.l. stuck points 100 lbs. 4.55 5.05
Sal, bgs. c.l., works 100 lbs. 1.40 - —
l.c.l. works 100 lbs. 1.70 - —
Soda-lime, USP, dms. lb. .23 - .25
Sodium acetate, anhyd. bgs., c.l., works lb. .12 - —
l.c.l., dms lb. .12¾ - —
NF, gran., dms., works lb. .10 - .16½
Alginate, refined, bbls., works lb. .83 - —
semi-refined bbls., works lb. .54 - —
NF, white, powd., dms., ton lots, works lb. 1.30 - —
Antimoniate, bbls., c.l., dlvd. E lb. .27½- —
l.c.l., dlvd. lb. .29 - —
Arsenate, dms., c.l., works lb. .12½- —
l.c.l. dms. works lb. .13¾- .14¼
Arsenite dms. c.l., works lb. .13½ —
l.c.l., dms works lb. .14¼ 15¼
solution dms., works gal. .70 1.10
Ascorbate, dms., 25-50 kilo lots kilo. 21.60 - —
10 kilo lots kilo. 21.35 - —
5 kilo lots kilo. 21.75 - —
1 kilo lots kilo. 22.00 - —
500 gram lots, bots kilo. 22.50 - —
Benzoate, tech., bbls., dms., 100 lbs. or more lb. .37½- .39
USP, bbls., dms., 100 lbs. or more lb. .44½- .46

Red Precipitate, NF—Sodium Chromate

Sodium bicarbonate, USP, gran., bgs., c.l., works 100 lbs. 2.50 - —
l.c.l., works 100 lbs 3.15 - —
powd. bgs., c.l. works 100 lbs 2.10 - —
l.c.l. works 100 lbs 2.75 - —
Bichromate, bgs., c.l., works lb. .11 - —
l.c.l., same basis lb. .11¼ .12
Bifluoride bbls. c.l., works, frt. equald lb. .1375- —
l.c.l., same basis lb. .1415- —
Bisulphate, bulk c.l., works. 100 lbs 2.00 —
dms., c.l., works 100 lbs 3.65 3.85
l.c.l., works 100 lbs 3.95 3.65
Bisulphite anhyd. bgs., c.l., works. 100 lbs 4.05 - —
l.c.l. works 100 lbs 4.30 - —
solut. 35° bbls., c.l., works. 100 lbs 1.40 - —
l.c.l. works 100 lbs 1.80 - —
Borate (see Borax).
Bromide USP bbls. kgs., works, lb .34 .35
Cacodylate, NF, dms., jrs. lb. 8.52 - —
Carbonate, anhydrous (see Soda ash), crystalline, decahydrated (see Soda sal), monohydrated bgs., c.l., works 100 lbs. 2.90 - —
l.c.l., works 100 lbs. 3.30 - —
Carboxymethyl cellulose (see CMC).
Chlorate cryst. dms. c.l. works. lb 08¼- —
l.c.l. works lb 08¾ .09¼
Chloride, tech. (see Salt).
USP, dms lb 65 .12
Chlorite tech dms. works lb 58 .73
Chloroacetate, tech., dms., c.l., works lb. .24 - —
l.c.l. works lb .25 .28
Chromate, dms. c.l., works lb. 12¾ —
l.c.l. same basis lb. .13 .13¾

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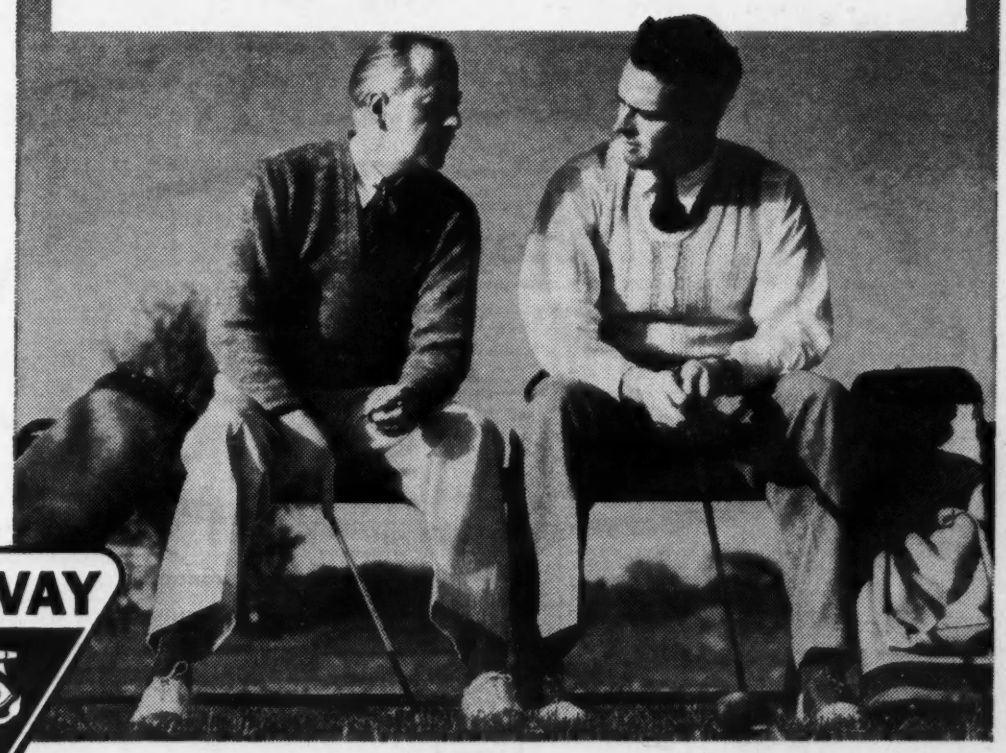
"I Call SOLVAY *FIRST* for Alkalies because..."



SOLVAY

Soda Ash
Caustic Potash
Chlorine
Potassium Carbonate
Calcium Chloride
Sodium Bicarbonate
Sodium Nitrite
Caustic Soda
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Ammonium Bicarbonate
Para-dichlorobenzene
Ortho-dichlorobenzene
Monochlorobenzene
Ammonium Chloride
Snowflake® Crystals

...I know I can count on Solvay to give me the services I need to operate my business smoothly. Whether I'm placing a big order, or whether I want some technical help, I always get cooperation from the folks at Solvay.

A perfect example of this is Technical Service. Through the years, Solvay has accumulated a vast store of technical information that has been put into informative booklets called Solvay Technical Service Bulletins. These bulletins are available to me whenever I need 'em. And they cost me nothing—they're free. I can also get further technical help from the Solvay Technical Service staff—fellows who are experts in individual industries.

Doing business with Solvay is convenient for me, too . . . there are thirteen sales offices in key cities where you can get courteous friendly service. And you can get prompt delivery from Solvay's three centrally-located plants and more than 200 local stock points.

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61 Broadway, New York 6, N. Y.

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Boston • Charlotte • Chicago • Cincinnati • Cleveland • Detroit
Houston • New Orleans • New York • Philadelphia • Pittsburgh
St. Louis • Syracuse

Sodium Citrate—Sodium Tungstate

Sodium citrate, anhyd., dms.....lb. .60 - .65
USP VIII, gran., dms ....lb. .22½ .29¼
USP XIV, gran., dms.....lb. .28 - .34
Sodium citrate USP powd. prices ½c. higher.
Cyanate, dms., 1,000-lb. lots, works lb. .85 1.10
smaller lots, works lb. 1.00 1.25
Cyanide, flake, 96-98% dms., c.l., or 20,000-lb. lots lb. .168 - —
over 1,000 lbs lb. .178 - —
100-lb to 1,000-lb. lots lb .188 - —
Granular sodium cyanide 1c. higher.
Diacetate, 33-35% acidity, 250-lb. drs., works lb. 14 - —
l.c.l., drs lb. .14¾ - —
anhydrous, cms., c.l., works lb .17 - —
l.c.l. lb. .17¾ - —
Fluoride, white, 90%, bbls., c.l., works lb. .11 - —
l.c.l., works lb. .1140- —
95%, bbls., c.l., works lb. .1125- —
l.c.l., works lb. .1165- —
Fluoracetate, monobasic, 8-oz. tins, 50 to a case, works..lb.12.00 - —
2 to 25 tins to case, works lb.12.00 -16.50
1 oz. tins, 16 to 64 to case, works lb 16.50 -21.00
Sodium formate, bgs., c.l., dlvd. E. 100 lbs. 7.60 - —
l.c.l., works .....100 lbs. 8.65 - —
Gentisate, 100-lb. fib drms lb 8.50 - —
Gluconate, technical, bgs. ....lb. .35 - —
refined, drms. .....lb. .80 - .83
Glutamate, monobasic, drms., c.l lb. 1.70 - —
Glycerophosphate, NF, cryst., bbls. lb. 1.80 - 1.95
powder, bbls .....lb 1.85 2.00
solution, 75%, cbys.....lb 1.06 1.21
Hydride, drms., works.....lb. 2.00 - 3.00
smaller lots, dlvd.....lb. 1.66 - —

Sodium hydrosulphide (see Sodium sulphydrate).
Hydrosulphite, dms., c.l., frt. alld. lb. .24½- —
l.c.l., frt. alld .....lo. .25 - —
Hydroxide, tech. (see Soda caustic).
NF, pellets, 100-lb drms., 1 to 100 drms lb. .18½- .23
Hypophosphite, NF, drms, ton lots or less lb. .95 - .98
Hyposulphite, photo grade, bgs., c.l., works 100 lbs. 4.00 4.25
l.c.l., same basis ..100 lbs 4.65 7.15
pea crystals, bgs .....100 lbs 4.50 - —
gran., bgs., c.l., works.100 lbs 5.00 - —
tech., bgs., c.l., works 100 lbs. 4.00 - —
l.c.l., works .....100 lbs. 4.40 6.90
Sodium hyposulphite crystals in bbls 50c. higher.
NF (see Sodium thiosulphate).
Iodide, USP, bots., drms.....lb. 2.80 - 2.92
Lactate, edible, 50%, drms., cbys., works lb. .21½- —
60% drms cbys. works lb. .26½- —
tech., 50%, drms., cbys., works, lb. .16½- —
Laurysulphate, drms., c.l., dlvd..lb. .24 - —
l.c.l., dlvd. .....lb. .25 - —
tanks, dlvd. .....lb. .23 - —
Metabisulphite, see sodium bisulphite
Metaborate, octahydrate, gran., bgs., c.l., works .ton.78.50 - —
l.c.l., ex. whse .....ton.124.50 -129 50
Sodium metaborate, octahydrate in bbls., $24.50 per ton higher.
tetrahydrate, c.l., bbls., works. ton.199.50 - —

Sodium metallic, tanks, works...lb. .18 - —
bricks, bbls., works.....lb. .17 - .19
Metanilate, bbls., frt. alld.....lb. .62 - —
Metasilicate, anhyd., bgs., c.l., works..100 lbs. 4.70 - —
l.c.l., works.....100 lbs. 4.95 - 5.45
drms., c.l.....100 lbs. 5.05 - —
l.c.l. .....100 lbs 5.30 - 5.55
Pentahydrate, bgs., c.l., works, 100 lbs. 3.80 - —
l.c.l., bgs., works....100 lbs. 4.15 - 4.55
drms., c.l., works ....100 lbs 4.20 - —
l.c.l., works.....100 lbs. 4.55 - 4.95
Molybdate, crystals, bbls., works lb. .75 - .85
powd., anhy., drms., works....lb. .90 - —
Monohydrate (see Sodium carbonate, monohydrated).
Naphthionate, bbls.....lb. .70 - —
Nitrate, crude, bgs., c.l., works, ton.51.00 - —
bulk, c.l., works .....ton 47.50 - —
imp., 100-lb. bgs., c.l., Atl. Gulf, Pac. whse..ton.57.00 - —
bulk, c.l., same basis ton.53.50 - —
Nitrite, bbls., c.l., works, frt. equald lb. .07¼- —
l.c.l., same basis .....lb. .08¾- —
USP, gran., drms .....lb. .17 - —
Orthosilicate, anhyd., drms., c.l., works..100 lbs. 5.85 - —
l.c.l., works.....100 lbs. 7.60 - —
hydrated, flake, bbls., c.l., works 100 lbs 4.75 - —
l.c.l., works.....100 lbs. 5.50 - —
Oxalate, neut., bgs., works.....lb. .1040- —
Para-aminobenzoate, drms., 1,000-lb. lots or more..lb. 2.40 - —
smaller lots.....lb. 2.45 - 2.50
Para-animosalicylate, drms, 1,000-lb lots, frt. adjusted..lb. 3.75 - —
smaller lots, same basis....lb. 3.80 - 4.25

Sodium pentachlorophenate, briquets, bgs., c.l., works, frt. equald..lb. .25½- —
l.c.l., same basis.....lb. .26½- .28¼
pellets, bgs., c.l., same basis..lb. .25 - —
l.c.l., same basis .....lb. .26 - 28
powdered, bgs., c.l., same basis, lb. .24 - —
l.c.l., same basis .....lb. .25 - 27
Pentachloropnenate 20,000 lbs. min. truckloads ¼c. per lb. over carlot prices.
Perborate, USP, tech., bbls., c.l., works...lb. .193 - —
l.c.l., works .....lb. .198 - —
Peroxide, drms., c.l., dlvd. E. of Miss lb. .1860- —
l.c.l., same basis.....lb. .1910- .2010
Phenolsulphonate, USP IX, gran., drms lb. .44 - .45
powd., drms .....lb. .47 - .48
Phosphate, dibasic, anhyd., bgs., c.l., frt., equald..100 lbs. 7.45 - —
l.c.l., works.....100 lbs. 7.85 - —
USP, dried powd., bgs., drms., works..lb. .19 - .20½
duohydrate, bgs., c.l., frt. equald..100 lbs. 7.05 - —
frt., equald.....100 lbs. 7.25 - —
monobasic, anhyd., bgs., c.l., frt. equald.....100 lbs. 8.45 - —
l.c.l., frt. equald..100 lbs. 8.90 - —
tribasic, cryst., bgs., c.l., frt. equald..100 lbs. 4.20 - —
l.c.l., frt. equald..100 lbs. 4.60 - —
Sodium phosphates in drms., 60c. higher than bgs.
Prussiate, yellow, bgs., 10-ton lots. lb. .13½- —
smaller lots .....lb. .14 - —
Pyrophosphate, acid, bgs., c.l., works, frt. equald..100 lbs.10.75 - —
ferric, drms., 1,500-lb. lots, works..lb. .31 - —
smaller lots, works....lb. .32 - —
tetrabasic, anhy., bgs., c.l., works, frt. equald..100 lbs. 7.90 - —
l.c.l., frt. equald...100 lbs. 8.10 - —
Salicylate, USP, drms .....lb. .63 - —
Sesquicarbonate, bgs., c.l., works. 100 lbs. 2.10 - —
l.c.l., dlvd., zone 1....100 lbs. 3.85 - 4.10
zone 2.....100 lbs. 4.10 - 4.35
zone 3.....100 lbs. 4.40 - 4.65
zone 4.....100 lbs. 5.10 - 5.35
Sales zones are: (1) All States E. of Miss. R. and N. of south bound of Ky. and Va.; Ala., La., and Miss., south of 31° Tex. E. of 100°; S. of 31° Fla.; also Me., N. H., and Vt., in which there are special county zones: Davenport, Ia. and St. Louis; (2) Ark. E of 98° Ga.; Iowa (except Davenport), Minn., Mo. (except St. Louis), Neb., E. of 98° N. C., S. C., Tenn. and Tex. N. of 31° and E. of 100° (except Wichita Falls); also Ala., La. and Miss. No. of 31°; (3) Ark. W of 98°, Kan., Neb. W. of 98°; N. D., Okla., S. D., Tex., W. of 100° (including Wichita Falls excluding El Paso); (4) Ariz., Colo., Idaho, Mont., Nev., N. M., Utah, Wyo., and El Paso, Tex.
bbls., c.l., works .....100 lbs. 2.45 - —
Sesquisilicate, anhy., drms., c.l., works..100 lbs. 5.50 - —
l.c.l., works .....100 lbs. 7.00 - —
hydrated bgs., c.l., works 100 lbs. 4.25 - —
l.c.l., bgs., works..100 lbs. 4.60 - 5.00
Silicate, liquid, 40° 1:3.2, turbid, drms., c.l., works 100 lbs. 1.25 - —
l.c.l., works 100 lbs. 1.60 - 2.00
tanks, works .....100 lbs. .90 - .95
47°, turbid, 1:2.9, drms., c.l., works..100 lbs. 1.80 - 1.90
l.c.l., drms., works.. 100 lbs. 2.15 - 2.55
tanks, works....100 lbs. 1.45 - 1.55
52°, turbid, 1:2.4, drms., c.l., works..lb. 2.10 - —
l.c.l., works.....100 lbs. 2.45 - 2.85
tanks, works.....100 lbs. 1.75 - —
solid, 1:3.2, bgs., works.....ton.52.50 -55.00
Silicofluoride, bgs., c.l., works..lb. .070 - —
l.c.l., works lb. .075 - .079
Sodium silicofluoride in drms., 4/10c. higher.
Stannate, drms., works, frt. alld, E..lb. .609 - .652
Stearate, tech., drms., works....lb. .43 - .44
USP, drms., works.....lb. .70 - .75
Sulphanilate, bbls., works.....lb. .22 - —
Sulphate, NF, VII, dried, powd., drms..lb. .22½- —
tech., anhyd., bgs., c.l., works, frt. allowance to $10. 100 lbs. 2.25 - —
l.c.l., works, same basis. 100 lbs. 2.50 - 3.00
rayon grd., bgs., c.l., works. ton.27.00 - —
l.c.l., works..... ton.33.00 - —
USP, cryst., fib. drms.....lb. .17½- .18
gran., fib. drms .....lb. .17½- .19
Sulphide, flake, drms., c.l., works, E., frt. equald..lb. .05¼- —
l.c.l., same basis.....lb. .05¾- —
fused, bbls., c.l., works, E., frt. equald..lb. .04¾- —
l.c.l., same basis.....lb. .05¼- —
Sulphite anhyd., bgs., c.l., works, 100 lbs. 3.00 - —
l.c.l., same basis....100 lbs. 3.50 - —
powder, bbls., c.l., works 100 lbs. 7.25 - —
l.c.l., works.....100 lbs. 7.50 - —
Sulphocyanide, CP (see Sodium thiocyanate).
Sulphoricinoleate, bbls..... lb. No prices.
Sulphydrate, flake, 70-72%, drms., works, c.l...lb. .06½- —
l.c.l., works.....lb. .07 - —
liquid, 40-44%, tanks, works, basis 100%..ton.110.00 - —
Tetraborate (see Borax).
Tetrasulphide, liquid, 40%, drms., c.l., works..lb. .03½- —
l.c.l., works.....lb. .04 - —
Thiocyanate, CP, drms.....lb. .55 - .65
tech., drms., works.....lb. .30 - —
Thiosulphate, NF, cryst., bbls .lb. .12½- —
tech (see Sodium hyposulphite).
Titanate, ctns., c.l., works..lb. .10½- —
5 tons, works .....lb. .10¾- —
1 ton or less, works .....lb. .11 - —
Trichloroacetate, 90%, 100-lb. drms., c.l., frt. alld., E..lb. .37½- —
l.c.l., frt. adjusted, E lb. .39½- —
50-lb. drms., c.l., frt. alld., E lb. .38 - —
l.c.l., frt. adjusted, E lb. .40 - —
10-lb. cns., c.l., frt. alld., E lb. .44 - —
l.c.l., frt. adjusted, E..lb. .46 - —
Prices West of the Rockies are 1¼c. per pound higher.
Tripolyphosphate, bgs., c.l., works, frt. equald..100 lbs. 8.25 - —
l.c.l., same basis.....100 lbs. 8.45 - —
Trisilicate, powd., 1:3.2, bgs., c.l., works..100 lbs. 7.75 - —
l.c.l., works.....100 lbs. 8.50 - 8.90
drms., c.l., works.....100 lbs. 8.15 - —
l.c.l., works.....100 lbs. 8.90 - 9.30
Tristearate, fib. drms., 20,000 lbs., works..lb. .33 - —
10,000 to 20,000 lbs., works lb. .35 - —
smaller lots, works lb .38 - .40
Tungstate, tech., kgs., dlvd. E..lb. 2.90 - —

a dependable preservative from a reliable source . . .

for preserving the flavor and quality of food, beverages, syrups, concentrates . . . safely and economically

Heyden
SODIUM BENZOATE

Other Heyden products important in flavoring and preserving . . .

BENZOIC ACID
BENZALDEHYDE
METHYL SALICYLATE
PROPYL GALLATE
SACCHARIN
SACCHARIN SODIUM

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342 Madison Avenue, New York 17, N. Y.
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FINE HEYDEN CHEMICALS

Benzaldehyde • Benzoates • Benzyl Chloride • Chlorinated Aromatics • Creosotes • Formaldehyde • Formic Acid
Glycerophosphates • Guaiacols • Hexamethylenetetramine • Medicinal Colloids • Methylene Disalicylic Acid • Neomycin • Paraformaldehyde
Parahydroxybenzoates • Penicillin • Pentaerythritols • Propyl Gallate • Resorcinol • Salicylates • Salicylic Acid • Streptomycin

Sodium-ammonium phosphate, bbls., works, frt. equald ..lb. .23 - —
Sodium-carboxymethylcellulose. See CMC.
Sodium-cinchophen (see Cinchophen-sodium).
Sodium-formaldehyde sulphoxylate, c.l., dms., dlvd lb. .25½- —
t.c.l., same basis ..... lb. .26 - —
Sodium sulpha, drugs (see Sulpha name).
Sodium-zirconyl sulphate, fiber dms., 1,000 lbs. or more, works lb. .28 - —
less than 1,000 lbs., same basis lb. .30 - —
Solvent naphtha, coaltar, refined, tanks, works gal. .31 - .32
high-flash, tanks, works gal. .31 - .32
petroleum, 100°F., flash tanks, Baytown, Tex. gal. .31 - —
Bayonne ..... gal. .35 - —
150°F., flash, tanks, Baytown, Tex gal. .31 - —
Sorbitan monostearate, fib. dms., 20,000 lbs., works lb. .32 - —
10,000 to 20,000 lbs., works lb. .34 - —
smaller lots, works ..... lb. .37 - .39
Sorbitol, cryst., pellets, dms., c.l., works lb. .30 - —
ton-lots to 5 tons, works .. lb. .32 - .33
powd., dms., ton lots to 5 tons, works lb. .32 - .39
solution, commercial, aqueous, dms., c.l., works..lb. .24¼- —
ton lots, works lb. .25 - —
less ton lots, works lb. .25¼- —
tanks, works lb. .23¼- —
regular, 70%, aqueous, dms., c.l., works lb. .16 - —
ton lots, works ... lb. .16¾- —
less ton lots, works lb. .17 - —
tanks, works lb. .15 - —
commercial, aqueous, dms., c.l., works..lb. .24¼- —
Soybean meal, 44%, bulk, Decatur. ton.66.00 -67.00
protein chemically isolated 40,000 to 60,000 lbs., dlvd lb. .23½- —
20,000 to 40,000 lbs., same basis lb. .23¾- —
100 to 20,000 lbs., same basis lb. .24¼- —
mechanically refined, bgs., 40,000 lbs., same basis lb. .0605- —
20,000 lbs., same basis . lb. .0620- —
smaller lots same basis lb. .0635- —
Sparteine sulphate, cns..... oz. .85 1.25
Spearmint leaves, bls..... lb. .60 - .65
Spikenard root, bls..... lb. .45 - .46
Spruce extract liq. reg., tanks, works lb. .01¾- —
powd. super bgs., c.l., works. lb. .05½- —
t.c.l., works..... lb. .05¾- —
Squaw vine leaves, bls ..... lb. .45 - .46
Squill red fortified pcwd., bbls. boxes lb. 1.60 - —
white, bls..... lb. .12 - .15
powd., bbls., bxs..... lb. .18 - .21
St. John's bread edible, bls..... lb. .10 - 13
Stannous chloride (see Tin chloride stannous)
Star root (see Helonias root)
Stargrass root (see Aletris root)
Starch, corn, pearl, paper bgs., c.l., N. Y. 100 lbs. 7.14 - —
t.c.l. ..... 100 lbs. 7.29 - —
powd., paper bgs., c.l. 100 lbs. 7.26 - —
t.c.l. ..... 100 lbs. 7.32 - —
Prices for corn starch in cotton bags 25c. per 100 lbs. higher.
Starch, potato, dom., Idaho, bgs., c.l., works..lb. .08½ Nom.
Maine, bgs., c.l., works..lb. .07 - —
t.c.l., spot..... lb. .0875- .0950
Rice, t.c.l., bgs..... lb. .16 - .17
Wheat, bgs. ..... lb. .0755- .0780
Staves, acre seed, bgs ..... lb. .60 - .61
Stearin, oleo (see Oleostearin).
Stillingia root, bls ..... lb. .30 - .31
Stomach substance, not USP, fib. dms. lb. 2.95 - 3.10
Stonecroot, bls ..... lb. .07½ - .08
Storax, USP, cs..... lb. .85 - 2.05
Stramonium leaves, bgs..... lb. .17 - .19
Streptomycin, either hydrochloride or sulphate, bulk, gram. .17 - —
Strontium bromide, NF, cns., dms. lb. .77 - .78
Carbonate, pure, 5-ton lots or more, dms., works..lb. .33 - —
1-ton lots, dms., works..... lb. .37 - —
tech., dms., works..... lb. .19 - —
Chromate, bbls., works ..... lb .46 - —
Iodide, jars, 25-lb. lots..... lb. 3.42 - —
Nitrate, obls., cs., works..... lb. .10¼ .11
Oxalate, bbls., works ..... lb. No prices.
Salicylate NF dms ..... lb. 1.65 —
Sulphate, air floated 90%, 325 mesh bgs., works ton.56.70 -66.15
Strontium-calcium sulphide phosphorescent, dms., works..lb. 2.80 - 2.85
Strophanthin, NF, bots..... oz.25.00 -25.50
Strophanthus seed, Kombe, biologically tested, bgs. lb. 3.25 - —
Strychnine NF powd., cans, 100 ozs oz. 1.10 - —
Phosphate, NF, 100 ozs oz. 1.14 - —
Sulphate, USP powd., cans, 100 ozs..oz. .85 - —
Styrene monomer, dms., c.l., works lb. .22¼- —
t.c.l., works ..... lb. .23¼- —
tanks, works ..... lb. .21 — —
Styrolyl acetate, bots..... lb. 1.45 - 1.70
Sucrose octa-acetate, denaturing grd., 100-200-lb bgs., t.c.l., works lb. .71 - —
Sugar coloring (see Caramel coloring).
Sugar of milk (see Milk sugar).
Sulphabenzamide, dms ..... lb 4.00 4.50
Sodium, dms ..... lb. 4.10 4.60
Sulphacetamide fiber dms ..... lb 4.00 4.20
Sodium, fib. dms ..... lb. 5.00 5.20
Sulphadiazin, USP, microcrystals, dms lb.10.60 -11.10
powder, dms..... lb.10.25 -10.75
Sulphadiazin-sodium, USP, dms lb 11.25 -11.75
micro crystals, dms ..... lb.10.60 -11.10
Sulphaguanidin USP, dms..... lb. 4.00 - 4.50
Sulphamerazin, USP, micro crystals, lb.10.65 -11.15
Sulphamerazin-sodium USP, dms., lb.11.25 -11.75
Sulphamethazine, micro crystals, dms lb. 8.90 - 9.40
powder, dms ..... lb 8.50 9.00
Sulphanilamide, USP, 30-80 mesh., dms lb. 1.40 - 1.60
microcrystals, dms .... lb. 1.70 - 1.90
powder, dms ..... lb. 1.30 - 1.50
Sulphanilamidoquinoxaline, veterinary, dms lb 6.50 - 6.75
Sulphapyridin NF powd. bots. tins. lb. 7.00 - 7.50
Sulphapyridin-sodium monohydrate, dms lb. 7.50 - 8.00
Sulphathiazole USP, micro crystals, dms lb. 3.15 - 3.30
powder, dms..... lb. 2.80 - 2.95
Sulphathiazole-sodium, USP, dms. lb. 3.05 - 3.20
Sulphur, commercial, flour, bgs., mines 100 lbs 2.05 - —
bbls., mines ..... 100 lbs 2.20 - —
lump, bgs., mines ..... 100 lbs 1.70 - —
bbls., mines ..... 100 lbs 2.00 - —

Sulphur, crude, bulk, c.l., mines, contract, long ton.25.50 -27.50
export, f.o.b. vessels, Gulf ports ..long ton.28.00 -30.50
domestic and Canada, f.o.b. vessel Gulf port..long ton.27.50- 30.50
refined, flowers, USP, bgs., mines. 100 lbs. 3.60 - —
bbls. ..... 100 lbs. 4.75 - —
flour, light, bgs., mines 100 lbs. 3.35 - —
bbls., mines ..... 100 lbs. 4.25 - —
lump, bgs., mines..... 100 lbs. 2.90 - —
rolls, bgs., mines ..... 100 lbs. 3.35 - —
bbls., mines ..... 100 lbs. 3.80 - —
salt block, bgs., mines 100 lbs. 3.10 - —
virgin block bbls., mines 100 lbs. 3.05 - —
rubbermakers, com'l, regular bgs., mines..100 lbs. 2.25 - —
bbls., mines 100 lbs. 2.40 - —
98-100% passing through 325 mesh bgs., mines 100 lbs. 2.25 - —
bbls. mines ..... 100 lbs. 3.40 - —
refined, bgs., mines .. 100 lbs. 2.85 - —
bbls., mines 100 lbs. 2.95 - —
treated, 2.5% mineral oil, bgs., mines 100 lbs. 2.85 - —
bbls., mines ..... 100 lbs. 3.80 - —
10% pine tar, bgs., mines. 100 lbs. 3.65 - —
Dichloride, dms., c.l., works, frt. equald..lb. .03¾- —
t.c.l., same basis ..... lb. .04½- —
tankcars, same basis ..... lb. .03½- —
Dioxide liquid, com'l, cyls., works..lb. .09 - —
multi unit cars, works lb. .0535- —
tanks, works lb. .045 - —
refrigeration cyls. t.c.l. dlvd. lb. .20 .36
Monochloride, 55-gal. dms., c.l., frt. equald..lb. .03½- —
t.c.l. same basis ..... lb. .04¼- —
tanks, same basis..... lb. .03¼- —
washed, NF, bot..... lb. .11 - —

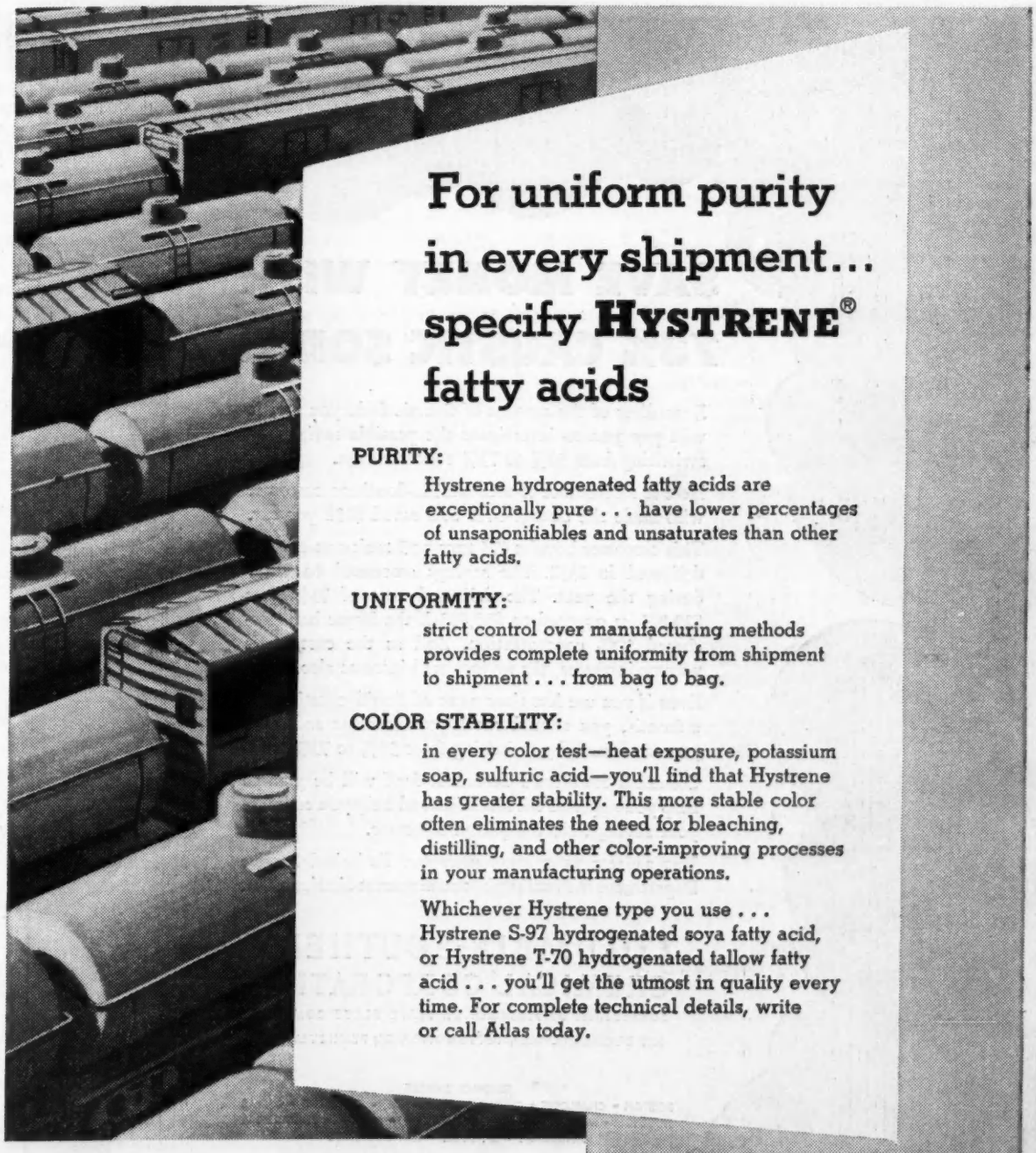
Sumac leaf, 28%, bgs., ex-dock, short-ton.120.00 - —
ground, same basis.....ton.120.00 - —
Superphosphate, run-of-pile, under 22% a.p.a., pulv., bulk, Balto unit-ton. .86 - —
Carteret, N. J....unit-ton. .86 - .89
triple, 48% or more, a.p.a., pulv., bulk, East Tampa, Fla.. unit-ton. .91 - —
Sweet basil, imported, bgs.....lb. 1.35 - —

T

2,4,5-T, dms., cl., works .....lb. 1.40 - —
t.c.l., works.....lb. 1.45 - 1.50
Isopropyl ester dms. c.l., works. lb. 1.45 - —
t.c.l., works.....lb. 1.50 - 1.57
Talc, dom., ordinary, Calif., grd., bgs., c.l., works ton.25.00 -35.00
Vermont off color grd., bgs., c.l., works ton.14.00 - —
t.c.l. works ton.17.50 - —
fibrous, New York, grd., bgs., c.l., works ton.25.00 -30.00
t.c.l. ton.28.00 -35.00
99.5% 325 mesh, bgs, c.l., works ton 27.00 —
t.c.l., works ton.30.00 -32.00
99.95%, micronized, bgs., works, ton.36.00 - —
imp Canadian grd., bgs. c.l., mines ton.15.25 -35.00

Sodium-Ammonium Phosphate—Terpin

Tallow, edible, tanks, dlvd.....lb. .07¼- —
inedible, extra .....lb. .04½- —
fancy, bleachable.....lb. .04¾- —
No. 1 .....lb. .04¼- —
special .....lb. .04¾- —
sulphonated, 25%, dms., t.c.l.lb. .05½- .05¾
50%, dms., c.l.....lb. .03¼- .06½
Tamarind, W.I., bbls lb. .11 .13
Tankage, animal, feeding, 9-11% ammo, bulk .unit-ton. 4.75 - —
Chicago .....unit-ton. 5.00 - —
Tapioca flour, Brazilian, ex whse, bgs. lb. .14½- .17
Java, AAA, ex whse., bgs.. lb. .09½- .10
AA, bgs. .....lb. .09¼- .09¾
Tar acid oil, 15-18%, dms., c.l., trt. equald gal. .47 - .49
t.c.l., same basis ... gal. .50 - .51
tanks, same basis ... gal. .39 - —
25-28%, dms., c.l., same basis. gal. .54 - .56
t.c.l., same basis .. gal. .57 - .58
tanks, same basis gal. .46 - —
50-53%, dms., c.l., same basis. gal. .70 .72½
t.c.l., same basis ... gal. .73½- .74½
tanks, same basis..... gal. .62½- —
Tar, coal (see Coaltar).
Pine (see Pinetar).
Tarragon herb, bgs ..... lb 45 50
Leaves, bgs ..... lb 65 70
Tartar emetic, tech, gran. or powd., bbls. kgs lb 58 59
dms. lb .57 60
USP, powd. bbls., dms. kgs lb 61 62
Terpin hydrate com'l bbls., c.l lb 24½ —
t.c.l. ..... lb. .25 .25½
NF, cryst., fib. dms..... lb. .60 - .62
powd., b. dms..... lb. .65 - .69



For uniform purity in every shipment... specify HYSTRENE® fatty acids

PURITY:

Hystrene hydrogenated fatty acids are exceptionally pure . . . have lower percentages of unsaponifiables and unsaturates than other fatty acids.

UNIFORMITY:

strict control over manufacturing methods provides complete uniformity from shipment to shipment . . . from bag to bag.

COLOR STABILITY:

in every color test—heat exposure, potassium soap, sulfuric acid—you'll find that Hystrene has greater stability. This more stable color often eliminates the need for bleaching, distilling, and other color-improving processes in your manufacturing operations.

Whichever Hystrene type you use . . . Hystrene S-97 hydrogenated soya fatty acid, or Hystrene T-70 hydrogenated tallow fatty acid . . . you'll get the utmost in quality every time. For complete technical details, write or call Atlas today.

HYSTRENE SPECIFICATIONS

	HYSTRENE T-70	HYSTRENE S-97
Titer (Average °C.)	61.5-62.5	65.5-66.5
Iodine Value (Wijs)	0.5 Max.	0.8 Max.
Unsaponifiables (%)	0.15 Max.	0.25 Max.
Color (Lovibond, 5¼" Cell)	2Y-0.4R Max.	3Y-0.7R Max.
Free Fatty Acid (as stearic—%)	100.5-102.5	100.0-101
Acid No. (Average)	198-202	195-199
Saponification No. (Average)	199-203	198-201

INDUSTRIAL CHEMICALS DEPARTMENT
ATLAS POWDER COMPANY
WILMINGTON 99, DELAWARE
offices in principal cities
ATLAS POWDER COMPANY, CANADA, LTD.
BRANTFORD, CANADA

Terpineol—Vanadium Pentoxide

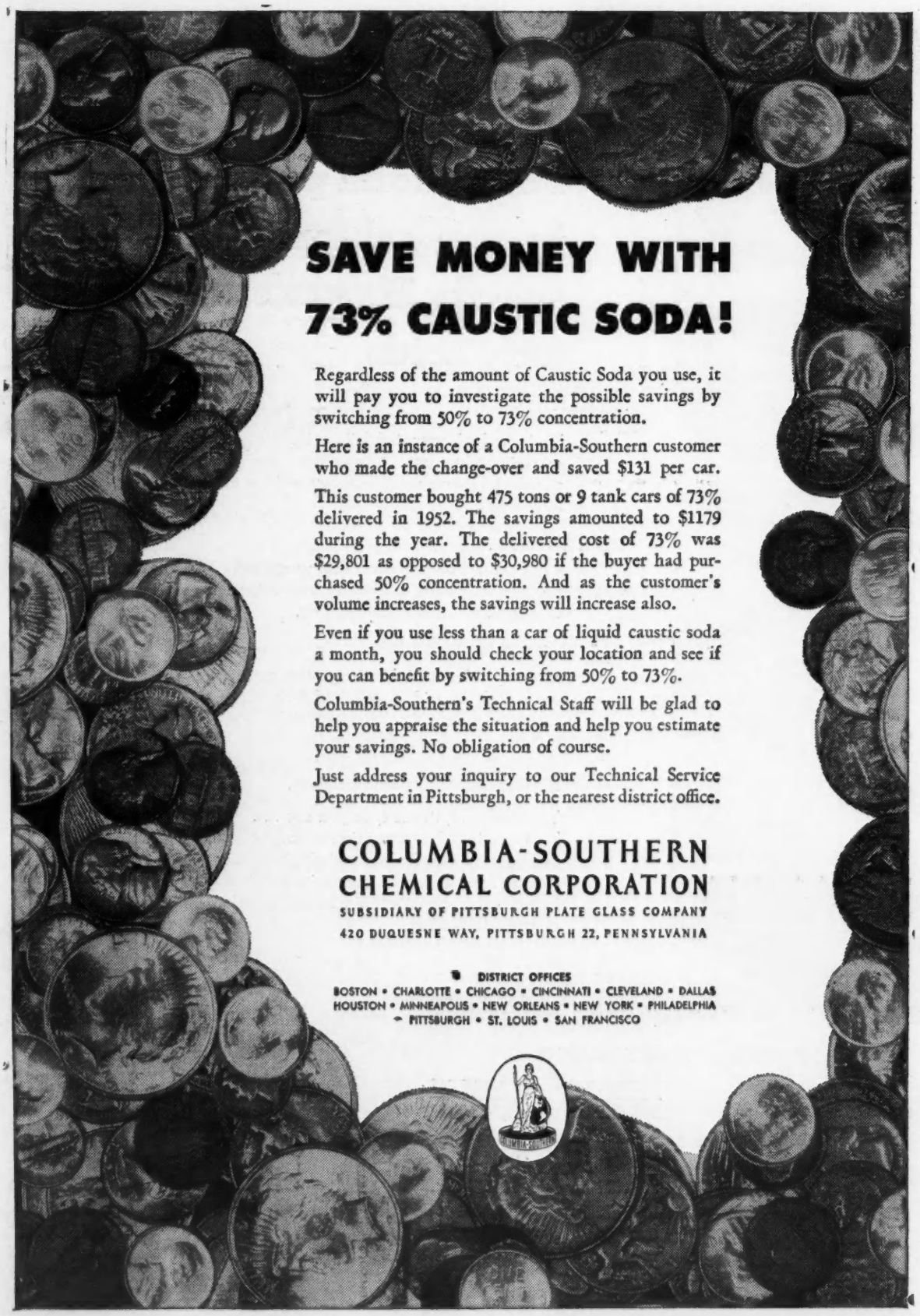
Terpineol alpha (see A). commercial, dms., c.l., South lb. .13½- —
l.c.l. South lb .14 - —
extra, dms lb. .41 - .60
prime, dms lb. .30 - .45
Terpinglycol ether, dms., c.l., works. lb. .23½- —
l.c.l. works lb. .25½- —
tanks, works lb .22 - —
Terpinyl acetate, extra, cns., dms. lb. .55 - .75
prime, dms lb. .55 - .70
Propionate, dms lb 1.75 2.00
Terra alba (see Gypsum).
Testosterone, USP, 100 gms., bots. gm. .98 - —
Propionate, USP, 100 gms., bots. gm. .98 - —
Tetrachloroethane, dms., works lb. .12½- —
Tetrachloroethylene, tech. (see Perchloroethylene).
USP, 55-gal. dms., works lb. .20½- .21½
smaller, dms., works lb. .23½- .25
Tetraethyl orthosilicate, dms., c.l., works lb. .71 - —
l.c.l. lb. .73 - —
Pyrophosphate, 40%, cns., dms., frt. equald lb. .69 - —
Tetraethylenepentamine, dms., c.l., dlvd., E lb. .57½- —
l.c.l. dlvd. E lb. .58½- —
tanks, dlvd E lb. .56 - —
Tetrapotassium phosphate, (see Potassium phosphate).
Tetrasodium pyrophosphate (see Sodium pyrophosphate).
Thallium metal, dlvd lb.12.50 -15.00
Sulphate, 99%, bots., dlvd lb 10.50 -13.00
Salicylate, fib. dms lb 4.25 - —
Sodio-salicylate, fib. dms lb. 2.90 - —
Theobromine, NF, fib. dms lb. 3.00 - —
And sodium acetate, USP, fib. dms lb. 3.60 - —
Salicylate, fib. dms lb. 4.00 - —
Sodio-salicylate, NF, fib. dms lb. 2.90 - —
Theophylline, anhydrous or USP. 100-lb. dms lb. 4.00 - 4.40
Thiamine hydrochloride, USP, regular or ampul-type, fib. dms. kilo.135.00 - —
Mononitrate, USP, fib. dms kilo.135.00 - —
Thiocarbanilide, dms lb .44 - .51
Thiodiphenylamine (see Phenothiazine).
Thiophene, dms., c.l., works lb. 1.99¾- —
l.c.l., same basis lb. 2.00 - —
Thiourea, tech., dms., c.l., works lb. .46½- —
l.c.l., works lb. .48½- —
Thorium nitrate, purified, fib. dms., 100-lb. lots or more, works lb. 3.50 - —
Threonine dextro laevo, bots., 1-kilo lots kilo.600.00 - —
Thyme, French, bgs lb. .21 - .25½
Spanish, bls. lb. .09 - .09½
Thymol, fib. dms lb. 3.10 - —
Iodide, NF, dms lb. 7.30 - —
Timbo root (see Cube root).
Tin chloride stannous anhyd., dms., works lb. .885 - 1.082
Crystals, hydrous, dms., bbls., works lb. .78 - .88
Metal lb. .93½- —
Oxide, dms lb. .97 - .98
Sulphate, stannous, bbls lb. .941 - .961
Tetrachloride, anhyd., dms., works lb. .767 - .777
Titanium dioxide anatase, chalk resistant, bgs., c.l., dlvd. lb. .21 - .21½
l.c.l., dlvd lb. .22 - .22½
regular, bgs., c.l., dlvd lb. .21 - .21½
l.c.l., dlvd. lb. .22 - .22½
Titanium dioxide anatase, ceramic, bgs., c.l., dlvd. lb. .21 - .21½
l.c.l., dlvd lb. .22 - .22½
metallurgical, natural granular, bgs., c.l., f.o.b. Jacksonville, Fla. ton.110.00 - —
c.l., Niagara Falls, N. Y. ton.127.50 - —
5 tons, same basis ton.132.50 - —
ton lots, same basis ton.137.50 - —
Milled titanium dioxide $7.50 per ton higher.
rutile, non-chalking, bgs., c.l., dlvd. E lb. .23 - .23½
l.c.l., dlvd. E lb. .24 - .24½
bgs., c.l., dlvd. lb. .08 - .08½
Hydride, cns., works lb. 7.95 - 9.00
Pigment, calcium-rutile, base.
Titanium dioxide and pigment in bbls., ¼c. higher, Pac. coast, c.l., dlvd. L.c.l., ex whse., ½c. higher.
Tetrachloride, tech., dms., c.l., works lb. .45½- —
l.c.l., works lb. .48½- .56½
tankcars, works lb. .44½- —
Tolidin base, distilled, kgs lb 1.30 —
Tolu balsam, cns., dms lb. 2.85 - 3.85
Toluene (see Toluol).
Toluol, coaltar, industrial or nitration, tanks, works:—
Bethlehem, Pa gal. .32 - —
Birmingham dist gal. .30 - —
Chicago dist gal. .33 - —
Cleveland dist gal. .32¾- —
Geneva, Utah gal. .26 - —
Hamilton, Ohio gal. .32 - —
Johnstown, Pa gal. .30 - —
Lackawanna, N. Y. gal. .33 - —
Lone Star, Tex gal. .35 - —
Lorain, Ohio gal. .31 - —
Toluol, coaltar, industrial or nitration, tanks, works:—
Minnequa, Colo gal. .32 - —
Philadelphia Pa gal. .33½- —
Pittsburgh dist gal. .30 - —
Sparrow's Point, Md gal. .30 - —
Terre Haute, Ind gal. .33½- —
Wyandotte, Mich gal. .34¼- —
Youngstown, Ohio gal. .30½- —
Petroleum, industrial, 2° tanks, works, Albany, N. Y. gal. .33 - —
Bayonne, N. J. gal. .33 - —
Baytown, Tex gal. .31 - —
Chicago, Ill gal. .33 - —
Detroit, Mich gal. .33 - —
Philadelphia, Pa gal. .33 - —
Providence, R. I. gal. .33 - —
Wood River, Ill gal. .33 - —
Tonga, 50% bark and vine, bls. lb. .60 - .65
Tonka beans, Angostura, cks lb. 1.75 1.80
Brazilian, Surinam, cs lb. 1.10 - 1.25
Totaquine, 100-oz lots, cns oz. .42 - —
Toxaphene, dms., c.l., works lb. .17 - —
truckloads, works lb. .17 - —
ton to truckloads, works lb. .20 - —
less than ton, lots, works lb. .23 - —
Triacetin, dms., c.l., dlvd. E, of Rockies lb. .47¼- —
l.c.l., same basis lb. .48¼- .49¾
tanks, same basis lb. .45½- —
Tributyl citrate, tech., dms., c.l. lb. .40½- —
l.c.l. lb. .41½- —
tanks lb. .39 - —
Phosphate, dms., c.l., frt. alld lb. .51¾- .63½
l.c.l., same basis lb. .52¾- .64½
tanks lb. .50 - —
Tributylamine, dms., c.l., works, lb. .73½- —
l.c.l., same basis lb. .75 - —
tanks, same basis lb. .72 - —
Trichlorobenzene dms., c.l., works, frt. alld. lb. .12½- .14½
l.c.l., frt. alld lb. .13½- .15½
tanks, frt. alld lb. .11 - .13
Prices in the West 1¾c. higher.
tanks, works lb. .11½- —
Trichloroethylene, dms., c.l., or truckloads, works, frt. equald lb. .11 - —
dlvd. E lb. .12¼- —
l.c.l., works, frt. equald lb. .11½- —
dlvd. E lb. .13½- —
tanks, works, frt. equald lb. .10 - —
dlvd. E lb. .11 - —
Trichlorethane, dms., c.l., works lb. .13 - —
l.c.l., works lb. .13½- —
Tricholine citrate, 65% solut., ret. cbys., works, frt. adjusted. lb. 1.40 - 1.45
Tricresyl phosphate coaltar, dms., c.l., dlvd lb. .34¾- —
l.c.l., dlvd. lb. .35¾- —
tanks, dlvd lb. .33 - —
petroleum dms., c.l., dlvd lb. .34¾- —
l.c.l., dlvd. lb. .35¾- —
tanks, dlvd. lb. .33 - —
Triethanolamine, dms., c.l., dlvd. E lb. .26¼- —
l.c.l., same basis lb. .27¼- —
tanks, same basis lb. .24½- —
Triethylamine dms., c.l., works, dlvd. E lb. .45½- —
l.c.l., same basis lb. .46½- —
tanks, same basis lb. .43¾- —
Triethyl citrate, tech., dms., c.l. lb. .37½- —
l.c.l. lb. .38½- —
tanks lb. .36 - —
Phosphate dms., works, c.l. lb. .38 - —
l.c.l., same basis lb. .39 - —
tanks, same basis lb. .37 - —
Triethyleneglycol, dms., c.l., dlvd. E. lb. .23¼- —
l.c.l., same basis lb. .24¼- —
tanks, same basis lb. .21½- —
Triethylenetetramine, dms., c.l., dlvd. E lb. .48¼- —
l.c.l., dlvd. E lb. .49½- —
tanks, dlvd. E lb. .47 - —
Trimethylamine, 25-40%, dms., c.l., works, frt. equald, 100% basis lb. .38 - —
l.c.l., works, frt. equald, 100% basis lb. .38¼- —
tanks, works, frt. equald., 100% basis lb. .33 - —
Tripentaerythritol, bgs., c.l., works. lb. .36½- —
l.c.l., same basic lb. .39½- —
Triphenyl phosphate, bbls., c.l., frt. equald. lb. .39 - —
l.c.l., frt. equald lb. .40 - —
Triphenylguanidine, bbls., works lb. .90 - —
Tripoli, air floated, bgs., c.l., works. lb. .02 - —
double grd., bgs., c.l., works lb. .0185- —
single-grd., bgs., c.l., works lb. .0175- —
Tripropyleneglycol, dms., c.l., frt. alld lb. .26¼- —
l.c.l., frt. alld lb. .27¼- —
tanks, frt. alld lb. .24½- —
Trisodium fluoroacetate (see Sodium fluoroacetate, tribasic).
Trisodium phosphate (see Sodium phosphate tribasic).
Trypsin, pharmaceutical, 1:80, dms., works lb. 4.00 - 5.50
Tryptophane, dextro-laevo, fib. cns. works kilo.165.00 - —
Tuba root (see Cube root).
Tungsten metal, powd., 99.9%, dms. works lb. 7.75 - —
Turmeric root, Alleppey, bgs. lb. .20½- .21
Haitian, bgs lb. .09 - .09½
Madras, bgs. lb. .11 - .11½
Turpentine, gum and wood (see Protective Coatings market, Naval Stores).
Tyrothricin, USP, bots gram. .75 - .85

U

Urethane, USP dms lb. 1.50 - —
Unicorn root, false (see Helonias root) True (see Aletris root).
Uranium oxide, black, bgs lb. 2.55 - —
yellow, kgs lb. 1.65 - —
Urea, dom., 46% N bgs., c.l., wks. lb. .05½- —
l.c.l., works lb. .06 - —
44% N, bgs., c.l., 30 tons, frt alld. Kan., Neb., N. Dak., Okla., S. Dak., Tex., and east ton.142.00 - —
l.c.l., dlvd ton.146.00 - —
Urea-ammonia liquor, A and B grades, N basis, tankcars, Belle, W Va ton.120.00 - —
C and D grades, tankcars, same basis ton.118.50 - —
37 grade, tankcars, same basis. ton.147.50 - —
Uva ursi leaves, bls lb. .12 - .14

V

Valerian root, Belgian, NF, bls lb. .36 - .40
Valine, dextro-laevo, dms., works lb. 21.00 -27.50
Valonia, beards, 40-42% tannin, bgs., ex dock ton.85.00 - —
cups, 28-30% tannin, bgs., ex dock. ton.64.00 - —
extract, powd., bgs., ex dock, duty extra lb. .10 - —
Vanadium pentoxide, tech., dms., works lb. 1.28 - 1.33


SAVE MONEY WITH
73% CAUSTIC SODA!
Regardless of the amount of Caustic Soda you use, it will pay you to investigate the possible savings by switching from 50% to 73% concentration.
Here is an instance of a Columbia-Southern customer who made the change-over and saved $131 per car.
This customer bought 475 tons or 9 tank cars of 73% delivered in 1952. The savings amounted to $1179 during the year. The delivered cost of 73% was $29,801 as opposed to $30,980 if the buyer had purchased 50% concentration. And as the customer's volume increases, the savings will increase also.
Even if you use less than a car of liquid caustic soda a month, you should check your location and see if you can benefit by switching from 50% to 73%.
Columbia-Southern's Technical Staff will be glad to help you appraise the situation and help you estimate your savings. No obligation of course.
Just address your inquiry to our Technical Service Department in Pittsburgh, or the nearest district office.
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Wax save this handy specification chart

Warwick Waxes—waxes of proved performance—offer you the broadest selection in the wax field. Whatever your product or your problem—for expert help on formulations, for samples, for technical data, our wax chemists are at your service. Get in touch with Warwick today...ask for our 1953 price list. Prompt delivery. *Stocks in principal cities.*

WARWICK WAXES

NAME OF WAX	MELTING POINT ASTM D-127-30	PENETRATION 100g/77°/ 5 sec.	COLOR N P A	ACID NUMBER	SAPONIFICATION VALUE	TYPE
CARDIS® ONE	195-200	1-2	4-5	12-15	55-65	EMULSIFIABLE PETROLEUM WAX
CARDIS® 314	184-189	4-6	4-5	13-15	45-50	EMULSIFIABLE PETROLEUM WAX
CARDIS® 319	180-185	5-7	4½-6	18-20	65-70	EMULSIFIABLE PETROLEUM WAX
CARDIS® 320	180-185	5-7	4-5	28-30	75-80	EMULSIFIABLE PETROLEUM WAX
CARDIS® 262	195-200	4-6	BROWN	14-16	40-45	SPECIALLY PROCESSED PETROLEUM WAX
FORTEX	190-200	3-5	2½-3½	0.0	0.0	MICRO-CRYSTALLINE HARD AND PLASTIC
MEKON® B-20 A-20 Y-20	190-195 190-195 190-195	3-5 3-5 3-5	BROWN-BLACK AMBER-6 MAX. YELLOW-3-3½	0.0	0.0	MICRO-CRYSTALLINE HARD AND BRITTLE
WARCO WAX 180	180-185 180-185	4-7 4-7	WHITE BROWN	0.0	0.0	MICRO-CRYSTALLINE HARD AND BRITTLE
WARCO WAX 150-A	145-155 145-155	15-20 15-20	YELLOW 1-2 BROWN	0.0	0.0	MICRO-CRYSTALLINE PLASTIC
WARCOSINE	150-155	15-20	WHITE	0.0	0.0	MICRO-CRYSTALLINE PLASTIC
PARAFFIN	131-133	FULLY REFINED				CRYSTALLINE
SUGAR CANE WAX	174-178	3 MAX.	TAN	23-28	65-77	VEGETABLE WAX

WARWICK WAX COMPANY, INC., SUBSIDIARY Sun CHEMICAL CORPORATION

10TH STREET AND 44TH AVENUE, LONG ISLAND CITY, NEW YORK

In Maryland WARWICK WAXES

are available for immediate delivery from the warehouse of our exclusive distributor, J. C. Roger Chemical Corp., 546 South Longwood St., Baltimore, Maryland, Edmondson 5919.

OPD 5/4/53

Vanilla Beans—Yeast

Vanilla, beans, Bourbon, tins	lb.	4.50	4.75
Mexican, cuts, tins	lb.	4.00	4.25
whole, tins	lb.	4.50	5.00
Tahiti, cs	lb.	3.25	Nom.
Vanillin, ex eugenol, tins, 25 lbs	lb.	6.50	—
smaller lots	lb.	6.90	7.25
ex guaiacol tins, 25 lbs	lb	3.00	—
smaller lots	lb	3.05	3.15
ex lignin, tins, 25 lb. lots	lb	3.00	—
smaller lots tins	lb	3.05	3.15
Vinyl acetate, 55-gal. dms., c.l., works	lb.	.18½	—
l.c.l., works	lb.	.19	—
tanks, works	lb.	.17	—
Butylether, normal, tech., dms., c.l., works	lb.	.28	—
l.c.l. works	lb.	.30	—
tanks, works	lb.	.27	—
Ether (see Ether Vinyl)			
Ethylether, tech., dms., c.l., works	lb.	.26	—
l.c.l., works	lb.	.28	—
tanks, works	lb.	.25	—
Isobutylether, tech., dms., c.l., works	lb.	.28	—
l.c.l., works	lb.	.30	—
tanks, works	lb.	.27	—
Methylether, cyls., works	lb.	.23	—
tanks, works	lb.	.20	—

Cylinders are sold outright, or if shipped against deposit, a free period of 60 days is allowed; and if empties are returned prepaid and in good condition within that period, full refund is made.

Pyridin, ref. dms., works	lb.	1.65	—

Trichloride, (see Trichloroethane).

Viosterol, in alcohol, 1,000,000 D units per gm. bots., lots of 10 billion USP units, 1,000,000 units.		.025	—
lots of 1 billion USP units, 1,000,000 units.		.03	—
lots of less than 1 billion USP units 1,000,000 units.		.035	—
in natural vegetable oil, 400,000 to 1,000,000 D units per gm. bots., lots of 100 billion USP units.			
lots of 1 billion USP units, 1,000,000 units.		.025	—
lots of less than 1 billion USP units. 1,000,000 units.		.03	—
Vitamin A, synthetic, acetate, crystalline, beads, 500,000 A units per gm gm.		.07½	—
liquid, in oil, 1,000,000 A units per gm. 1,000,000 units.		.12	—
natural, concentrates (see Oil, fishliver).			
palmitate, liquid, 1,000,000-1,800,000 A units per gm. 1,000,000 units.		.12	—
in oil, 1,000,000 A units per gm 1,000,000 units.		.13	—
B_1 (see Thiamine hydrochloride).			
B_2 (see Riboflavin)			
B complex, natural (see Rice bran concentrate and Yeast).			
B_6 (see Pyridoxine hydrochloride).			
B_{12} crystalline gm. or 5 gm vials	gram	295.00	—
oral grade solids, in containers of 1 and 5 grams of B_{12} activity.	gm.	225.00	—
C (see Acid, ascorbic)			
D (see Oils, codliver and fishliver, Calciferol, and Viosterol).			
D_2 (see Calciferol).			
Viosterol, Vitamin E (see Alphatocopherol and Oil, wheatgerm).			
G (see Riboflavin).			
H (see Biotin).			
K, Active (see Menadione).			
K_{12} 25 gm. bots.	gram	4.50	—

Violet methyl toner (see Blue, methylviolet toner)
V.M.&P. naphtha (see Petroleum naphtha).

W

Wahoo root bark, bls	lb.	1.95	2.00
tree bark, bls	lb.	.95	1.00
Warfarin, 0.5%, dms., 50 lb. lots, dlvd	lb.	1.95	—
25-49 lb. lots, f.o.b., N.Y., or Chi.	lb.	2.05	—
5-24 lb. lots, cns., f.o.b., N. Y., or Chi.	lb.	2.15	—
Wattle bark, fair average, or E. Afr., bgs., ex dock	ton.	104.00	—
merchantable, bgs., ex dock	ton.	100.00	101.00
extract, liquid 35% tannin, bbls., works	lb.	.10¾	.11
solid, E. Africa, 61% tannin, bgs., ex dock, duty extra,	lb.	.11	—
S. Africa, 62%, tannin, ex-dock, duty extra	lb.	.11½	—
Wax amorphous (see Wax microcrystalline).			
Bayberry, bgs., spot	lb.	.42	.45
Bees, crude, African, bgs	lb.	.46	.46½
Brazilian, bgs	lb.	No stocks.	
Central American, bgs	lb.	.57	.58
Chilean, bgs	lb.	.58	.59
refined, bleached, white, bricks,	lb.	.69	.71
slabs	lb.	.66	.67
yellow, bricks	lb.	.55	.56
slabs	lb.	.54	.55
Wax, candelilla, crude, bgs	lb.	.75	.77
refined, bgs	lb.	.77	.79

Powdered candelilla, 20 mesh, 5c. per lb. extra; 80 mesh, 5½c.; 100-200 mesh, 6c.

Carnauba, chalky, bgs., ton lots.	lb.	1.03	Nom.
North Country, No. 2, bgs., ton lots.	lb.	1.08	1.10
No. 3, crude, bgs., ton lots.	lb.	1.06	1.07
refined, bgs., ton lots	lb.	1.10	1.12
yellow, No. 1, Ceara, bgs., ton lots.	lb.	1.33	1.34
Parnahyba, bgs., ton lots	lb.	No stocks.	
No. 2, Ceara, bgs., ton lots.	lb.	1.31	1.32

Powdered carnauba price differentials same as powdered candelilla.

Esparto, African	lb.	.72	—
Japan, bgs	lb.	.20	.25
Microcrystalline, 170°-175° m.p., ASTM, amber, ctns., 20,000, lbs. group 3, works	lb.	.13	.14
less than 20,000 lbs., same basis	lb.	.14	.15
black, ctns., 20,000 lbs., same basis	lb.	.11½	.12½
less than 20,000 lbs., same basis	lb.	.12½	.13½
white, ctns., 20,000 lbs., same basis	lb.	.24	.25
less than 20,000 lbs., same basis	lb.	.25	.26
180°-185° m.p., ASTM, amber ctns., 20,000 lbs., same basis	lb.	.16	—
less than 20,000 lbs., same basis	lb.	.17	—
black, ctns., 20,000 lbs., same basis	lb.	.14½	—
less than 20,000 lbs., same basis	lb.	.15½	—
white, ctns., 20,000 lbs., same basis	lb.	.27	—
less than 20,000 lbs., same basis	lb.	.28	—
190°-195° m.p., ASTM, amber, ctns., 20,000 lbs., same basis	lb.	.20	—
less than 20,000 lbs., same basis	lb.	.20½	—
black, ctns., 20,000 lbs., same basis	lb.	.18	—
less than 20,000 lbs., same basis	lb.	.18½	—
white, ctns., 20,000 lbs., same basis	lb.	.33½	—
less than 20,000 lbs., same basis	lb.	.34½	—
Montan, dom., refined, bgs	lb.	.31	.32
German, crude, bgs	lb.	.12	.13
Ouricury, ref., bgs	lb.	.74	.75
Paraffin (see P).			
Spermaceti, blocks, cs	lb.	.26	.29
cakes, cs	lb.	.27	.30
Sugar cane, crude, tmp	lb.	.43	—
refined, dom., works	lb.	.75	.80
spot	lb.	.77¼	.82½
White lead (see Lead, white).			
White pine bark, rossed, bls	lb.	.17	.18
White precipitate, USP powd., dms.,	lb.	5.60	—
Whiting, limestone, dry-grd., 99.5%, 325 mesh bgs., c.l., works.	ton	6.00	10.00
smaller lots, works	ton	6.50	15.00
wet-grd., bgs., c.l., works	ton.	16.00	30.00
smaller lots, works	ton.	21.00	35.00
Paris white, bgs., c.l.	ton.	24.00	31.00
l.c.l.	ton.	25.00	40.00
Precipitated, bgs., c.l.	ton.	18.00	20.00
l.c.l.	ton.	25.00	35.00
Wild cherry bark, thick, natural, bls	lb.	.06	.07
thin, natural, bls	lb.	.17	.19
rossed, bls	lb.	.19	.22
Ginger (see Snake root, Canada).			
Indigo root, bls	lb.	.30	.31
Yam root, bls	lb.	.16	.17
Witch hazel leaves, bls	lb.	.22	.24
Woodflour, 40 mesh, bulk, c.l., works, East	ton.	32.00	—
l.c.l., same basis	ton.	36.80	—
60 mesh, bulk, c.l., same basis	ton.	37.00	—
l.c.l., same basis	ton.	42.00	55.00
80-100 mesh, bulk, c.l., same basis	ton.	45.00	50.00
l.c.l., same basis	ton.	51.75	57.50

Woodflour in bgs. extra, returnable.

Woolfat, crude (see Degras).
USP (see Lanolin).

Wormseed, American, bgs	lb.	.24	.25
Levant, bgs	lb	4.25	4.50
Wormwood leaves, bls	lb.	.35	.45

X

Xanthorrhiza root, bls	lb.	.28	.30
Xylene (see Xylol).			
Xylenol, cryst., 56°-58°C. m.p., ref. dms., l.c.l., works, frt. equald.	lb.	.23	—
45°-47°C, dms., c.l., same basis.	lb.	.212	—
l.c.l., same basis	lb.	.215	—
tanks, same basis	lb.	.199	—
fractions, over 7° C., b.r., except meta, dms., c.l., same basis	gal.	1.31	—
l.c.l., same basis	gal.	1.34	—
tanks, same basis	gal.	1.20	—
meta fraction, over 7° C., dms., c.l. same basis	gal.	1.46	—
l.c.l., same basis	gal.	1.49	—
tanks, same basis	gal.	1.35	—
Xylidins, mixed, dms	lb.	.39	.50
Xylol, coaltar, industrial, tanks, works			
Bethlehem, Pa	gal.	.33	—
Birmingham district	gal.	.30¼	—
Chicago district	gal.	.33½	—
Cleveland district	gal.	.33	—
Geneva, Utah	gal.	.25	—
Hamilton, Ohio	gal.	.32	—
Johnstown, Pa	gal.	.31	—
Lackawanna, N. Y.	gal.	.33	—
Lone Star, Tex	gal.	.35	—
Lorain, Ohio	gal.	.31	—
Minnequa, Colo	gal.	.34	—
Philadelphia, Pa	gal.	.33	—
Pittsburgh district	gal.	.30	—
Sparrows Point, Md	gal.	.33	—
Terre Haute, Ind	gal.	.35	—
Wyandotte, Mich	gal.	.34¼	—
Youngstown, O	gal.	.30½	—
Petroleum, indust., tanks, Albany, N. Y.	gal.	.33	—
Bayonne, N. J.	gal.	.33	—
Baytown, Tex	gal.	.31	—
Chicago, Ill	gal.	.33	—
Philadelphia, Pa	gal.	.33	—
Providence, R. I.	gal.	.33	—
Wood River, Ill	gal.	.33	—

Y

Yara yara, cns	lb.	2.20	2.65
Yeast, brewer's, dry, USP, 50 Int'l B units per gram, 100-lb. dms	lb.	.47	—
90 Int'l B units per gram, 100-lb. dms	lb.	.52	—
200 Int'l B units per gram, 100-lb. dms	lb.	.56	—
300 Int'l B units per gram, 100-lb. dms	lb.	.60	—

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Barium chromate yellow price differentia in other States and city zones are those for chrome yellow below.

Benzidin, AAA, bbls., dlvd... lb. 1.91 - —
AAOT, bbls. ..... lb. 2.15 - —
Cadmium, CP, all shades, bbls., frt. alld., E. of Rockies lb. 2.85 - —
lithopone all shades, bbls., frt. alld. E. of Rockies lb. 1.20 - —

Cadmium yellows, Los Angeles, and San Francisco ex whse., 1c. per lb. higher.

Chrome, CP, bbls., dlvd. N. Tenn. and N. C., E. of Miss., including Davenport, Minneapolis, Rock Island.. lb. .31 - —

Dlvd. Ala., Fla., Ga., La. (Shreveport, 1¼c. higher); Miss., N. C., S. C., Penna., Dallas, Tex., 1¼c higher; Ft. Worth, Tex., 1½c. higher; El Paso, Tex. 2c. higher; Cedar Rapids, Des Moines, Kansas City, Lincoln, Omaha, St. Joseph, 1.6c. higher dlvd. Pac. Coast; for Denver, Pueblo, Salt Lake City Wichita prices are equalized with Chicago.

Hansa, 10 G, bbls., same basis as chrome.. lb. 2.15 - —
G. oigment, bbls ... lb. 1.91 - —
Iron oxide, natural, French type, bgs., c.l., works..... lb. .05¼- —
l.c.l. ..... lb. .05½- —
Peruvian type, bgs., l.c.l. lb. .038 - —
pure, bgs., c.l., works..... lb. .10½- —
l.c.l., works ..... lb. .10¾- —
Mercury oxide, bbls., 1,000-lb. lots. lb. 4.15 - —
smaller lots ..... lb. 4.17 - —
Ochre (see yellow iron oxide, natural).
Zinc (chromate), bbls., dlvd lb. .25 - —
basic, dlvd. ..... lb. .30 - —
Yellow dock root, bls..... lb. .18 - .19
Yellow xanthorrhiza (see Xanthorrhiza).
Yerba santa leaves, bls ..... lb. .32 - .33
Yohimbine hydrochloride, bots., tins. oz. 4.75 5.25

Z

Zein, bgs., 30,000 lbs. lots, works lb. .38 - —
1,000-lb. to 30,000-lb. lots, works lb. .40 - —
smaller lots, works..... lb. .43 - —
Zinc acetate tech, bbls, dms, works. lb. .27 - —
NF VIII, dms..... lb. .53 - —
Borate, bgs., c.l., dlvd. E .... lb. .192 - —
l.c.l., dlvd E ..... lb. .202 - —
Carbonate, tech., rubbermakers, bgs., c.l., works lb. .14½- —
l.c.l., works ..... lb. .15 - —
Chloride, NF, gran., dms.....lb. .42 - —
precipitated, powd., dms lb. .26 - —
solution, 50%, dms., c.l., works. 100 lbs. 4.75 - —
l.c.l., works .....100 lbs. 5.35 - —
tanks, works.....100 lbs. 4.10 - —
tech., fused, dms., c.l., works.. 100 lbs. 9.60 - —
l.c.l., works .... 100 lbs.10 00 - —
gran., fib., dms., c.l., works 100 lbs.10.60 - —
l.c.l., works.... 100 lbs.11.00 - —
Chromate (see Yellow zinc).
Cyanide, kgs., over 1,000 lbs., works lb. .523 - —
under 1,000 lbs., works lb. .543 - —
Dust, pigment, bbls., c.l., works.lb. .15¼- —
l.c.l., works ..... lb. .16¼- —
Fluoride, bbls., works..... lb. .49 - .50
Hydrosulphite, dms., c.l., frt. alld lb. .21½- —
l.c.l ..... lb .22 - .37½
Iodide, NF, jars.....lb. 5.25 - —
Laurate, bbls. .....lb. .45 - .46
Metal, slabs, E. St. Louis.....lb. .11 - —
Naphthenate, liquid, 8% Zn, frt. alld lb. .23½- —
10% Zn, dms., frt. alld .. lb. .28½- —
Oleate, fused, bbls ..... lb. .36 - —
Oxide, pigment, American process lead-free, bgs., c.l., dlvd.lb. .14 - —
l.c.l., dlvd..... lb. .15 - —
leaded 35%, bgs., c.l., dlvd. lb. .14 - —
l.c.l., dlvd.....lb. .15 - —
50%, bgs., c.l., dlvd....lb. .14 - —
l.c.l., dlvd.....lb. .15 - —
French process, com'l green seal, bgs., c.l., dlvd..lb. .15¾- —
l.c.l., dlvd ..... lb. .16¾- —
red seal, bgs., c.l., dlvd. lb. .15¼- —
l.c.l., dlvd..... lb. .16¼- —
white seal, bgs., c.l., dlvd..lb. .16¼- —
l.c.l., dlvd..... lb. .17¼- —
USP, ctns., c.l., dlvd.....lb. .17¼- —
l.c.l., dlvd.....lb. .18¼- —
Zinc oxide Pac. coast prices 1c. higher; bbl. prices ¼c higher than bgs.
Phenosulphonate, NF, gran., dms. lb. .39 - —
powd., dms ..... lb. .42 - .43
Resinate precip., dms., frt. allo. lo. .26¾- —
Silicofluoride, bbls., works...lb. .12 - .13
Stearate, tech., USP, ctns., c.l. lb. .37 - —
ton, lots ..... lb. .38 - —
less ton lots ..... lb. .39 - —
Sulphate, cryst., 22% Zn, bgs., c.l., works, frt. alld.. 100 lbs. 7.30 - —
l.c.l., same basis 100 lbs. 7.70 - —
flake, 25½%, Zn, bgs., c.l., works..100 lbs. 6.55 - —
l.c.l., works ..... 100 lbs. 6.90 - —
powdered, 36% Zn, bgs., c.l., frt. alld 100 lbs. 9.25 - 9.95
l.c.l., same basis 100 lbs.10.00 -10.70
Zinc sulphate in bbls., 40c higher.
USP, gran., dms ..... lb. .26 - —
Sulphide, pure, bgs., c.l., dlvd lb. .2530- —
fluorescent, fib., dms., less than 1,000 lbs., works lb. 1.80 - 1.90
phosphorescent fib., dms., less than 1,000 lb. lots, works. lb. 1.85 - 2.50
Undecylenate, dms..... lb. 2.25 - 2.50
Yellow (see Yellow, zinc).
Zinc-ammonium chloride, bgs., c.l., works 100 lbs. 9.05 - —
l.c.l., works ..... 100 lbs. 9.45 - —
Zinc-cadmium sulphide, fluorescent fib., dms., under 1,000 lbs., works lb. 2.10 2.90
Zinc-calcium resinate, dms., c.l., works lb. .1180- .1360
l.c.l., same basis ..... lb. .1220- .1400
Zinc-formaldehyde sulphoxylate, basic, dms., c.l. lb. .25½- —
l.c.l. ..... lb. .26 - .41½
normal, dms., l.c.l., works lb. .53 - —

Zircon, (G), granular, bgs., c.l., works lb. .03¼- —
5 tons to c.l., works .. lb. .03¾- —
1 ton to 9,999 lbs., works lb. .03¾- —
500 lbs. to 1,999 lbs., works, lb. .04 - —
less than 500 lbs. works lb. .06½- —
milled, bgs., c.l., works.....lb. .04½- —
5 tons to c.l. works lb. .04⅝- —
1 ton to 9,999 lbs. works lb. .04⅝- —
500 lbs., to 1,999 lbs., works, lb. .05 - —
less than 500 lbs., works lb. .07½- —
Zircon (G) in barrels, ¼c. higher.
Zirconium acetate 13% sol ZrO_2, c.l., 30,000 lbs. minimum works lb. .23 - —
Carbonate basic, cake bbls., works lb No prices.
Hydride, cns., works..... lb. 7.25 -11.50
Nitrate, dms., ex whse ..... 4.50 - 7.00
Oxide, 92½%-99%, white, grd., bbls., or bgs., works lb. 1.50 - —
lump electric-fused, bgs., c.l., works lb. .44 - —
5 tons, works ... lb. .44½- —
1 ton to 9,999 lbs., works lb. .45 - —
500 lbs. to 1,999 lbs., works lb. .45½- —
less than 500 lbs., works lb. .48 - —
milled, electric-fused, bgs., c.l., works. lb. .59 - —
5 tons, works lb. .59½- —
1 ton to 9,999 lbs., works lb. .60 - —
500 lbs. to 1,999 lbs., works lb. .60½- —
less than 500 lbs., works lb. .63 - —
Oxychloride, cryst., ctns., 5 tons, works lb. .32¼- —

Arnold, Hoffman Adds Dickson to Sales Staff

Arnold, Hoffman & Co., Providence, R. I., has added G. Allan Dickson to its sales staff. Mr. Dickson, who will work out of Arnold, Hoffman's office in Teterboro, N. J., will cover New Jersey, parts of New York and western Connecticut. He spent twelve years with Stillwater Worsted Mills, Inc., Harrisville, R. I., and five years with Cook Yarn Dye Mills, Inc., Phillipsdale, R. I.

RFC Abolition Plan

—Continued from page 5

not be fairly performed by private interests. It is on this principle that I favor the continuation of the RFC as a lending agency.

Equality for Small Business

"When private banks cannot or will not make credit available to small enterprises, disaster victims and small communities, then the government should be there to make sound loans—not gifts or grants—for essential purposes! It is the principle of equality of opportunity for small business, not one of special privileges to anyone on the basis of size.

"I can see no useful purpose to be attained from the elimination of the RFC. It is an earner—and relieves the taxpayer of some of his heavy burden. It is a positive assistance to productive activity in our small businesses and small communities. Rather, I favor placing responsibility in the RFC for as many of the various lending functions of the government as possible."

Hercules Elects Forster

—Continued from page 5

later becoming general manager of the department.

Mr. Higgins came into the Hercules organization in 1915 when that company acquired the Union Powder Company, Parlin, N. J., with which concern he was then serving as chief chemist. He became manager of the development department in 1926, a director and member of the finance committee in 1928 and a member of the executive committee in 1939. The following year Mr. Higgins was elected a vice-president, and in 1936 he was made chairman of the finance committee. Three years later he became president of Hercules.

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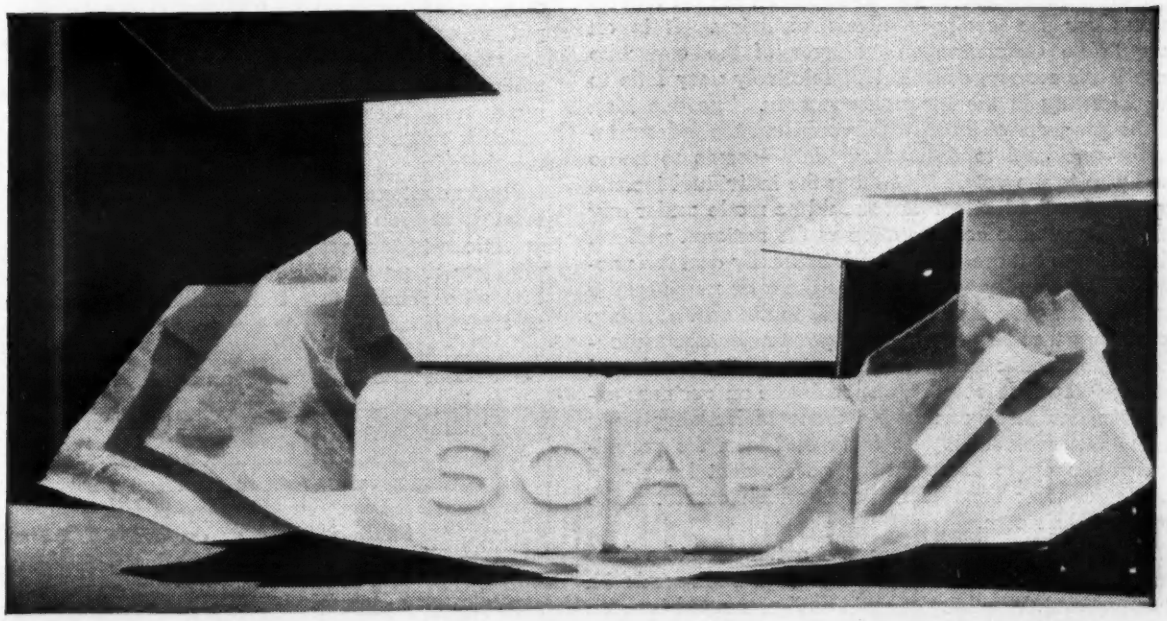

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Budget-Balancing in Action

As was surmised here several weeks ago, the balancing of the budget of the federal government is, so far, "one of those things." It has become a contest with nobody knows how many participants. The wrong-end-first campaign to cut the income—on the basis of numerical voting strength—has got about one-third of the way to first base. The important matter of satisfactorily (in terms of national welfare) trimming the outgo is getting somewhere—nobody knows where—slowly. It has become quite plain that budget-balancing is not a simple matter of figuring. In fact, it is quite clear that, of all the 'ics involved, mathematics is of the least magnitude in influence or consideration. The fact that a number of "emergency taxes are getting close to the limit of their statutorial existence has necessitated a deal of figuring. Much of that has been in the direction of new taxes, even going so far, in high circles, as to include a national sales tax on everything not classified as an absolute necessity. The extent to which that proposal has been brought about by recognition of the fact that hidden taxes are facing great public antagonism cannot be stated. But the idea of a universal excise levy—a purchase tax, not a sales tax as it is popularly styled—has no backing in equity or economic stability. Such a tax is unduly burdensome to the person with low income, who must spend even all that he makes for the ordinary needs of living. It is an inequitable discrimination in favor of the one who hoards his money, contributing relatively very little to the financing of the national economy. The one idea in the program of those who would cut the federal income—and add to the federal debt—seems to be to feed pap to the voters by cutting the individual income tax—that is the last cut that should be made under any ethical, equitable consideration of the national welfare. The taxes to cut are those which indirectly cost the people of this country three or more times as much as the government gets; those which add to the cost of living, something that has no place in governmental functioning. The so-called (miscalled) excise profits tax should be wiped out. It is nothing but a brake on business expansion; for there can be no sense in building up a business for practically no other end than the providing of money to be spent by government largely in favors to other lines of business which cannot make good on their own.

But, the first and most important cutting must be done on that, outgoing side. Some cuts have been made (in the program). Whether they will really be voted is much in doubt. Most of the cuts so far approved for proposal find little, if any, favor among those whose agencies would be affected thereby. That, of course, was to be expected, even to the extent manifested in the resignation of the Commissioner of Education. That incident points to one of the puzzling aspects of the economizing movement. The commissioner deplored the reducing of the quality of the education of American children "at a saving of such small sums while we continue as a nation to spend billions for other purposes." The commissioner's superior, the HEW departmental secretary a few days later said that there had been no indiscriminate slashing of any funds for the agency but had nothing to say on what might have influenced the commissioner's action.

Much talk has to do with the proposed cut in the funds for the Department of the Interior, which went substantially beyond the reductions worked out by the secretary. Much of the proposed reduction, it is estimated, would be offset by the transferring of various reclamation functionings to private enterprise. When those cuts come up for approval on the congressional floors, the consideration that will be given to their potential effects on the voting habits of those who have been served by governmental grasping of opportunities opened by private apathy with regard to their standard of living. This particular economizing has a peculiar aspect because of the attitude of the miners' organizations toward the at least rumored removal of the director of the Bureau of Mines.

The whole matter of budget-balancing has been given a rather strange aspect by the movements in congress to place definite limits on the amount of government spending. Both the Bureau of the Budget and the Department of the Treasury have opposed the restrictions. It is obvious that they would hamper the meeting of many real needs and also would add more than a little to the cost of handling the government's accounts.

It is being argued that much of the budget-cutting thus far advanced does not mean anything because the agencies to which it would apply will be running on funds already appropriated during the period of the proposed cuts. It is also argued that cuts similarly made in the recent past have had to be made up—and more—by means of special appropriations; so that the only way actually to cut the cost of government is to put an end to the things which it is doing, such as operating almost fifty credit and loan agencies, buying millions of pounds of butter, bales of cotton, bushels of grain, and other things for which it has no use and which it cannot devote to the good of those who could use them.

The budget cannot be balanced as long as those who must do the job are primarily, if not wholly, interested in but one type of welfare—not national, not public, but privately or partisanly political. Nobody but business can put an end to that, and business is heavily handicapped. It must educate the public objectively on the costliness—to the public—of letting government do what business can do better and cheaper—and it must prove that, not only yammer about it. It must point out the humbuggery of the one-package appropriation bill which hides the things that are not included in the economizing programs of those in congress who make much noise about economizing—in somebody else's community funding. It must do everything possible publicly to promote the proposed legislation which would authorize the President to veto any items in an appropriation bill which he did not approve. The hamstringing method of all or none covers so much unnecessary, undesirable providing of favors—in both directions—that it has no place in government for the people.

Washington Talks It Over

—*Continued from page 5*

of demand. Nor should such protection result in continuing heavy surpluses and subsidies at excessive costs to the taxpayer."

Agricultural Extension Work

The administration has asked congress to consolidate and codify the existing laws relating to cooperative agricultural extension work between the state land grant colleges and the Department of Agriculture. Prospects are that the legislation will receive early consideration and approval.

The Agricultural Extension Service is one of the most effective and constructive methods ever devised for improving agriculture and farm living, but over the thirty-five years that it has been in the making its various enabling acts and authorities have become scattered and to some extent outmoded. Fundamentally, the extension service is a program of education. Through the cooperative financing and research of the states and federal government, the latest developments in agriculture and in rural home-making worked out by the state agricultural colleges are made available to farmers and rural people.

In addition to educational activities dealing strictly with agriculture and rural home-making, the extension service has taken the lead in many rural communities in improving the rural health and sanitation—all on an educational level designed to show rural families and communities how they can help themselves to better health and better sanitation. In recent years, county agents and service workers have been working to show farmers how to harvest, pack, and ship their products so that they reach the consumer in better condition.

FDA Key Jobs Still in Doubt

Oveta Culp Hobby, Secretary of the Department of Health, Education and Welfare, held her first press conference the other day and one of the early questions asked was whether there are to be any replacements in the top jobs of the Food and Drug Administration. Her answers were anything but satisfying to some quarters of the drug industry. If anything, they made it appear that these jobs are quite insecure.

She said, when asked as to the status of the present incumbents, that "at the present time" the commissioner is a civil servant, and "at present" there have been no requests that he be replaced. The same answers applied to the jobs in the lower echelons of the agency. When asked if any changes are contemplated, she demurred and emphasized that her replies to the previous questions were as far as she was willing to go.

There have been rumors circulating in Washington for some weeks that the grain trade is "out to get the scalps" of Commissioner Charles Crawford and Associate Commissioner George Larrick for cracking down on contaminated grains getting into the food channels. It has also been rumored that the chemical manufacturers were supporting the ouster movement. This is not true insofar as the Manufacturing Chemists Association is concerned, however, and Mr. Crawford has been so informed.

Drug Traffic Punishment Sought

The problems of traffic in habit-forming drugs and illicit sales of narcotics and how best they can be dealt with are again engaging the attention of congress. Members from some of the states where it has become quite a problem are urging that a thoroughgoing study be undertaken by congress in search a remedy for the situation.

Some rather drastic proposals are being urged in several quarters to deter illegal traffic in dope which the Bureau of Narcotics fears would only accentuate the problem of enforcement, if put into operation. Some groups in California, which have been rather progressive in some of its legislation dealing with matters of health, are proposing mandatory death penalties for second offense dope smuggling across the borders or state lines and closing the Mexican border to all United States citizens under the age of twenty-one who are unaccompanied by adults.

Commissioner of Narcotics Harry J. Anslinger is exceedingly doubtful that any such drastic action would work. The death penalty would doubtlessly influence many juries to acquit the defendants in cases where they felt the death penalty too drastic. The closing of the border to minors, he adds, would not be a solution of the situation on the Mexican border because a lot of the traffic has been carried on by airplanes. Mr. Anslinger would like to have the imprisonment and fines of the present law increased, and a sterner attitude adopted by the courts towards offenders.

For the Bookshelf

DEVELOPMENTS IN THE PAINT INDUSTRY FOR 1952. By George S. Cook. Paper; 76 pages; 8½ x 11 in. New York: Powell Magazines, Inc. $1.50.

This summary of paint industry developments during 1952 is designed to put into one convenient volume the business and government activities as they affected the paint industry; new paint products; developments in drying oils, fatty acids, waxes, chemical intermediates, resins, lacquers, emulsion paints, plasticizers, pigments, and metal protection. Also discussed are problems and developments in paint production, plant maintenance, testing procedures, and evaluation work.

AN INTRODUCTION TO THE CHEMISTRY OF THE HYDRIDES. By Dallas T. Hurd. Cloth; x + 231 pages, 6x9 in. New York: John Wiley & Sons, Inc. $5.50.

Hydrides are all sorts of things. Some of them are quite common—water, for example; some, such as uranium deuteride, are as newly come into notice as is the hydrogen bomb, whose relation to hydride chemistry may turn out to be expansive.

Hydrides have been progressively getting all manner of attention as industrial chemical salts for some years. In the field of metallic compounds, they have reached a place of much more than academic importance.

Mr. Hurd is in research with the General Electric Company. He sets out to acquaint workers in both pure and applied chemistry with a field which he regards as unusually rich in possibilities for exploration. He has had the assistance of men with more than ordinary acquaintance with the hydrides, scientifically, technically, and industrially. The result is an interesting presentation of information which can be of real timely service in many chemical areas. In largest part the text is descriptive, starting with a general treatment of structures and properties and running through eight elemental groups, with additional chapters on complex compounds, hydrides of the transitional elements and borderline hydrides. The chapter on nomenclature is especially interesting because of the great variety of compounds which are hydrides or, in ionic reverse, salts of hydrogen. The "ines" and the "anes" aggravate the complexity. There is a useful chapter (appendix) on the toxicology of the hydrides. The appendixes also encompass sources of hydrides and tables of data. There are two good indexes—(1) author; (2) subject.

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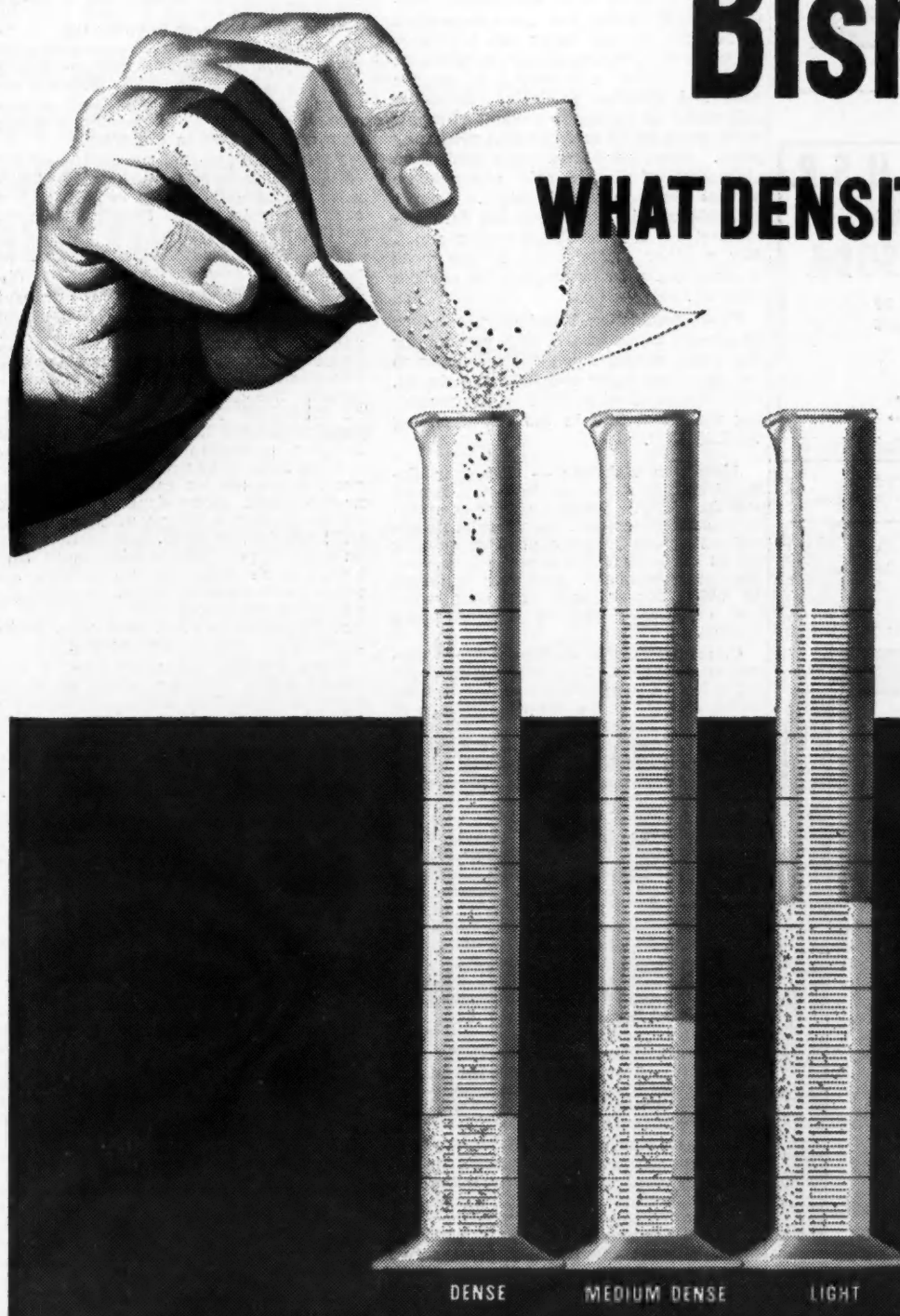

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Heavy Chemicals

Price trend turned upward last week, the index recording 97.27, compared with 97.22 in the preceding period. Price advances were numerous including phosphoric acid, lead metal, potassium stannate, soda ash, the sodium phosphates, sodium stannate, sodium sulphite, tin chloride, metal, sulphate and tetrachloride. The upward revisions could be traced primarily to higher producing costs which have been accumulating over the period of price control. The price declines were limited to copper metal, copper sulphate tribasic and to tinoxide. The latter chemical was not revised in the preceding week when other tin based chemicals were reduced in price.

Soda ash demand increased substantially for immediate delivery through last Thursday, consumers taking advantage of the opportunity to take on stocks prior to the advance in price on May 1. Producers are working on the l.c.l. schedule for soda ash which will be announced shortly. In other directions demand continued good. There was still a disposition to buy for current wants but producers were not complaining about the aggregate volume. There was plenty of caustic soda and chlorine available. Sulphuric acid was a bit tighter as a result of repair work going on at an important producing plant. Some producers were behind on shipments of formic acid although no serious shortage was in sight. Copper sulphate was in better demand for agricultural use in some of the eastern states. Dry weather during most of the week brought out a better inquiry for calcium chloride.

Paper production based on percentage of six-day capacity was 95.2 percent for the week ending April 25, according to the American Paper and Pulp Association. This compared with 93.6R in the preceding week and 91.9 in the corresponding week in 1952.

Aluminum Sulphate -- Consumer demand holding steady for both commercial and iron free. Present stocks adequate to meet requirements. Commercial papermakers' grade is going good at present prices while standard demand is normal for water treatment. Iron free is finding an outlet for dyestuffs including white and dry colors and in tanning white leather.

Calcium Chloride — Dry weather prevailing over most of last week has brought out a better inquiry for highway dusting which resulted in an improved volume of sales. Producers' inventories are adequate at present to meet requirements.

Carbon Bisulphide—Prices will be increased by a leading producer effective June 1. The revised prices of various containers follow:—Tankcars, $5.25 per 100 pounds, drums, 55 gallons; carlots, $7.50 per 100 pounds, 10 gallon drums; carlots, $10 per 100 pounds, 5 gallon drums; carlots, $10.25 per 100 pounds. Drums, l.c.l. 55 gallons, $8.50 per 100 pounds; 10 gallon drums, $11 per 100 pounds, and 5 gallon drums, $11,25 per 100 pounds. All prices are f.o.b. producing points.

Chlorine—Prices continued unchanged over the turn of the month. Demand was sustained at its former level with producers in a position to take on additional business for either immediate or forward shipments. According to producers, the call for water and sewage treatment during the hot weather period will not seriously affect supply conditions.

Copper Sulphate — Some interest was shown for agricultural use last week. Inquiries reached the market from southern New England, Long Island, New Jersey and Pennsylvania. There was no easement in the industrial demand which is good. Export inquiry was more active with sales reported mostly to South American countries. Prices were steady at the late decline with supplies adequate to meet all requirements.

Lime—In February 1953, domestic sales of open-market lime (665,007 tons) were 5 percent lower than in the previous month, according to reports by producers to the Bureau of Mines. Building, refractory, chemical and other industrial uses decreased, whereas an increase was noted for agricultural use.

Potash, Caustic—Sales of satisfactory dimensions are reported by producers with immediate shipments commanding the most attention. No variation in prices could be noted and there are sufficient first hand inventories to cover current requirements.

..**Potassium Carbonate**—Shipments to glass plants remained steady although the urgency is off the demand. Supply conditions appeared to be in better shape than noted earlier in the year.

Potassium Chlorate—Demand remained of seasonal dimension with match factories showing a disposition to purchase for current requirements. Supply conditions continued comfortable.

Potassium Stannate—Based on tin metal at 95c. per pound, the market closed higher at .696c. to .752c. per pound f.o.b. the works.

Salt—Costa Rica produced 5,000,000 pounds of sea salt in 1952, which was about 58 percent below normal output. The Ministry of Economy and Finance attributes the decrease to over-production in 1950 and 1951, which discouraged small producers from operating in 1952. Sulphur production was negligible.

Soda Ash—Prices were advanced 15c. per 100 pounds for carlots May 1. The new schedule shows dense ash in bulk, carlots $1.45 per 100 pounds, paper bags $1.75 and barrels $2.30. Light ash carlots, bulk $1.35 per 100 pounds, paper bags $165, barrels $2.20 per 100 pounds. All prices f.o.b. maker's works. Demand for deliveries was exceedingly strong through last Thursday as consumers were eager to stock up prior to the advance.

Soda, Caustic—Consumer interest continued active with no relaxation noted over the turn of the month. Demand appeared well diversified including textile, tire cord, oil refineries and soap. While supplies were adequate, adjustments in production have placed the market in a somewhat better state of balance with demand.

Sodium Bicarbonate—Demand showed some improvement for immediate shipment and the tone was a bit steadier under the influence of higher soda ash prices. Consumers, however are not finding supplies a problem at present.

Sodium Chlorate—Sales reported seasonally good with the market firm at the former price level. Production has kept stocks available for prompt shipment.

Sodium Phosphates—Increased producing costs, including freight, labor and materials have resulted in the establishment of higher prices. The new schedule became effective May 1. The breakdown shows dibasic anhydrous $7.45 for 100 pounds carlots, l.c.l. $7.85, duohydrate $7.05, l.c.l. $7.25, monobasic $8.45, l.c.l. $8.90, pyrophosphate, acid $10.75 carlots, pyroferric 1500 lbs. 31., smaller quantities 32c. per lb., tetra basic, anhydrous $7.90 for 100 lbs. carlots, $8.10 l.c.l., tribasic crystals $4.20, l.c.l. $4.60 and tripoly $8.25 per 100 lbs. in carlots and $8.45 l.c.l., all works, freight equalized with recognized competitive points.

Sodium Silicate—Market firm under a stronger background resulting from the advance in prices of soda ash. Demand reported good with no shortage of stocks at present.

Sodium Stannate—Priced higher at .609c. to .632c. per pound in drums, f.o.b. the works. Above figures are based on 95c. tin. Demand fair, stocks adequate.

Sodium Sulphite—Priced higher to cover increased cost of production. Anhydrous in bags, carlots now $3 per 100 lbs., l.c.l. $3.50. Powder $7.25 per 100 pounds in drums, l.c.l. $7.75. All prices f.o.b. the works.

Sulphur—Mine shipments of native sul-

For Late Market Developments, See Page 4

Price Trends

Advanced

Acid phosphoric tankcars, 20c. per 100 lbs.
Lead metal, ½c. per lb.
Potassium stannate, 4c. per lb.
Soda ash, 15c. per 100 lbs.
Sodium phosphate, dibasic, 20c. per 100 lbs.
Duohydrate, 40c. per 100 lbs.
Monobasic, 40c. per 100 lbs.
Pyro, acid, 75c. per 100 lbs.
Ferric, 1c. per lb.
Tetrabasic, 40c. per 100 lbs.
Tripoly, 40c. per 100 lbs.
Stannate, 4c. per lb.
Sulphate, ½c. per lb.
Tin chloride, stannous anhy., 7c. per lb.
Sulphate, stannous, 6c. per lb.
Tetrachloride anhy., 5c. per lb.

Reduced

Copper metal, ½c. per lb.
Copper sulphate, tribasic, $4.40 per 100 lbs.
Tin oxide, 8c. per lb.

Comparative Price Indexes

(100=1949 average)

Last week	Prev. week	Last month	May 2, 1952
97.27	97.22	97.51	97.69

(*For Current Prices see page 9*)

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phur during January amounted to 362,992 long tons, against 421,652 in December and 382,497 long tons in January, 1952. Apparent sales in January were 357,044 long tons, compared with 407,548 in the preceding month and 420,089 long tons in January last year. Plant shipments of recovered sulphur in January were placed at 19,998 long tons, against 18,800 in December and 7,880 long tons in January, 1952. Apparent sales amounted to 19,542 long tons in January, compared with 17,446 in December and 7,880 long tons in January, 1952.

As the sulphur situation has become less urgent, demand for pyrites in Quebec, Canada, has tended to slacken and what appeared to be a fertile mining field has temporarily become less attractive. However, mining companies in the Province are reported to be stockpiling pyrites in the belief that sulphur supplies may again be short. The project of Noranda Mines, Ltd., to begin mining operations at the MacDonald zinc-pyrites mine in the Rouyn district will mean a substantial increase later in shipments of pyrites from the Province.

Tin Chemicals—Tin oxide was not revised in price in the preceding week but is now based on the current price of tin. Producers quote 97c. to 98c. per pound. The other tin chemicals except crystals are slightly higher. Tin chloride closed the week at .885c. to $1.082 per pound for stannous anhydrous, sulphate stannous .941c. to .961c. and tetrachloride .767c. to .777c. per pound, all prices f.o.b. the works. Above prices are based on 95c. tin.

Acids

Acetic—Sales of glacial continued about steady according to producers. Stocks have been kept adequate to meet requirements and the tankcar price is unchanged at 9c. per pound. The only flexibility reported in prices is in resale lots in the New England area where competition is still rather keen.

Formic—Buying interest active with shipments running behind schedule in some producing quarters. Steady demand and high producing costs have kept the market position firm.

Hydrofluoric—Production is pacing demand at present. Shipments have been made promptly with no indication of an over supply in sight. Prices are firm at the former level.

Nitric—Market position firm with demand active. Maintenance of heavy production has kept the supply situation comfortable and buyers have not experienced difficulty in securing immediate shipments.

Oxalic—Sales continued to show a moderate gain although it was admitted there is room for considerable expansion. Producers are in a position to make immediate shipments.

Sulphuric—Temporary closing down of an important producing plant for repairs has tightened the supply position in this area to some extent. The market is firm with a tendency to harden as a result of the recent advance in sulphur.

Production of sulphuric acid in Canada totaled 803,703 short tons (100-percent acid) in 1952, compared with 813,210 in 1951, the Dominion Bureau of Statistics reports. Consumption was 768,698 tons. The fertilizer industry was by far the largest user, accounting for 510,090 tons. By Provinces, British Columbia was first with 434,755 tons, followed by Ontario with 178,484 tons and Quebec with 140,936.

Nonferrous Metals

Aluminum — Production of primary aluminum in February was 92,649 short tons according to the Bureau of Mines.

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Despite the shorter working period in February, production increased 3 percent compared with the previous month. The lifting of power restrictions and resumption of full operation at the Pacific Northwest plants during February coupled with the continually increasing production from newly established facilities resulted in an average daily output of 3,300 short tons, the highest production rate ever recorded. Price controls were removed on primary aluminum February 25, 1953. Primary ingot and pig were quoted at 20.50 and 19.50 cents per pound respectively during February. According to statements of primary metal producers no price increase was anticipated in the immediate future.

Antimony—Smelter production of antimony in February, the lowest recorded since the canvass began in January, 1951, amounted to only 295 short tons or 66 percent under the 870 tons in Januarry, according to the Bureau of Mines. Mine output during the month was nil. Industrial consumption decreased 14 percent from the 1,222 tons consumed in January to 1,049 tons in February. Of the total consumption, 51 percent was used in the manufacture of nonmetal products and 49 percent in the manufacture of metal products. Stocks held by producers and smelters on February 28 remained virtually unchanged at 3,130 short tons, as compared with 3,065 tons reported on hand at the beginning of the month. Stocks held by industrial consumers and dealers on February 28 decreased 8 percent from the 3,928 tons reported on hand February 1, totalling 3,601 short tons.

Imports rose from the record low of 713 tons in January to 1,346 tons in February, a sharp increase of 89 percent. Of the total imports 83 percent was in the form of ore and concentrates, 13 percent in the form of metal and 4 percent in the form of oxide. For the fifth consecutive month there were no exports of ore and metal, however exports of antimony salts and compounds (including oxide and sulphide, gross weight) amounted to 4 tons, valued at $3,606, as compared with 3 tons, valued at $2,309, in January.

Bismuth—All bismuth produced in Mexico comes from one smelting and refining company. Another plant recovers lead-bismuth dross, but sends the material to the refining company, which upgrades it into bismuth lead bars, with a bismuth content up to 95 percent. Production of bismuth bullion totaled 120 metric tons (bismuth content) in the first 6 months of 1952, compared with 275 tons in the year 1951.

Chromite—During the short month of February, consumption of all grades of chromite decreased and the combined total was 7 percent below January, according to the Bureau of Mines. The use of ore for metallurgical purposes (in the manufacture of ferro-alloys and stainless steels) declined 3 percent. Refractory and chemical use dropped 10 percent and 19 percent, respectively. February consumption of chromium metallurgical products (ferrochromium, briquets metal, Chrom-X, Chrom Sil-X, and low-carbon ferrochrome silicon) was 3 percent less than January. Stocks of these products held by consumers on February 28 totaled 21,412 short tons, and those held by producers totaled 10,304 tons. Production of chromium chemicals in February totaled 7,421 short tons.

Shipments ot domestic chromite to the Government's purchase depot at Grants Pass, Oregon, in February totaled 1,232 short tons (preliminary), an increase of 51 percent over the previous month. According to the Bureau of the Census, imports of metallurgical chromite during February increased 55 percent over January and were the highest for any month for at least 5 years. Refractory imports dropped 12 percent and chemical imports rose 17 percent to make a total increase of 22 percent in the imports of all grades of chromite.

Copper — According to trade reports, most of the business for the current month is now on producers' books. Demand over the past week was about steady with 30c. per pound generally named, although at the close the tone appeared a bit easier and it was stated that 29½c. to 29¾c. would probably be considered in some selling quarters. There was still confusion as to what level prices might settle within the next few weeks. The market is now entering what is generally termed the quiet season. Trading in copper scrap was exceedingly slow throughout the period.

Lead—A firmer tone characterized the market last week. Demand was active with sales of fair dimensions reported at 12c. per pound and later at 12½c. New York basis. Advanced prices for future shipment and higher prices established in the London market contributed strength to the spot position. It was stated that the recent decline in market quotations was the result primarily to the sizable quantities brought here from foreign supply sources. It was also asserted that government stockpiling could offer a large measure of relief by dissipating selling pressure.

Quicksilver—Buying interest remained quiet over the turn of the month. There did not appear to be much of an over supply of spot around and prices continued at the former range of $195 to $200 per flask, depending upon the seller and quantity.

Tin—Fluctuations were not as violent during the past week. Intermittent declines and recoveries were noted in the outside market with prices showing more of a tendency to stabilize. The course was closely in accord with the London market which showed intervals of real strength. About the same condition prevailed in the Singapore market. During the late trading on Friday 93½c. per pound was named for grade A on spot.

Zinc—According to statements made at the meeting of the American Zinc Institute held at St. Louis, free world production of zinc ore and zinc metal in 1953 will be lower than last year and if present low prices continue the rate of zinc out-

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put by the end of the first quarter of 1954 will be still lower. It was stated that the difficulties of the zinc industry today are not caused by its having done more in expanding output than it was asked to do, they are caused by forecasts of future civilian and military demand that proved far wide of the mark. Shortages in late 1950 and early 1951 were not the result so much of actual consumption of zinc as of fears whipped up by repeated government estimates of huge requirements that have not materialized. The zinc industry is in the midst of a slump comparable in severity to and longer than the slump of 1949 and early 1950, it was declared.

Zinc Institute Elects

—Continued from page 7

duction continues at new record levels, using imported ores and ore stocks. Also, consumption is at a very high rate, yet metal stocks remain quite high and are depressing our zinc market. There seems to be little likelihood of improvement in our domestic situation until the demand for zinc metal outside the United States picks up sufficiently to absorb a greater percentage of world production, or until Washington takes some action in support of domestic mining.

"It is not likely that domestic consumption can be increased above present levels in time to prevent further curtailment in domestic production; therefore, seemingly the greatest possibility of help must come from Washington. Lately some purchases have been made for the national stockpile, but not in sufficient volume to be very helpful. Industry representatives are working hard to establish an import tax on zinc and lead. In the other direction, is the slogan of "Trade, not Aid" and the propaganda in favor of the theory that the best national policy is to conserve our mineral resources in the ground against some future emergency and buy our current requirements from outside sources," Mr. Caples pointed out.

European Zinc Situation Surveyed

Lewis R. Stubbs, director of the Zinc Development Association of England, in surveying the European situation, pointed out that production and consumption in Europe are today "not far out of balance." Since Britain, the largest European consumer, draws supplies from outside Europe, other countries are likely in times of surplus to want to try to expand their texports outside Europe, Mr. Stubbs said.

B. P. Finkbone, product engineer for Armco Steel Corporation, Middletown, Ohio, said "new markets for zinc coated metal will far more than offset the markets this industry should logically lose to competition." He expressed confidence that the next few years could bring a greatly expanded use of zinc-coated steels. He added, however, that research and production men must produce improved zinc-coated steels and that the industry must educate customers on the advantages of zinc coating.

"With the unlimited supply of today, steel allocations virtually a thing of the past and new markets available, 1953 should be a standout year for the galvanizing industry in both sheet, strip and hot dipped products," Mr. Finkbone concluded.

Job Galvanizing Outlook

S. J. Swensson, secretary-treasurer of the American Hot Dip Galvanizers Association, speaking on the outlook for job galvanizing this year, reviewed the work of his association, and added, "We know that you, the producers, will be interested in what we are doing particularly, as we believe the galvanizers are just about the largest purchasers of prime western slab zinc. The success of our efforts reflects itself in the welfare of the producers. The outlook is optimistic and we expect a good year, barring any unforeseen circumstances over which we would have no control."

Howard L. Young, American Zinc Sales Company, St. Louis, Mo., spoke on zinc supply and consumption in 1953. He said, "The wide fluctuations in price in slab zinc in the past year are of great concern to consumers and producers alike, and in order to combat competition from substitute materials which do not fluctuate in price, those of us who sell metal in the zinc industry must concern ourselves immediately with the problems relating to more stable prices for zinc in line with actual costs of production and a reasonable profit.

Wide Price Variation Noted

"It is firmly believed that consumers of slab zinc are not only willing, but anxious, that producers receive a fair price for their product, one which will insure a reliable supply at all times. Metal produced outside the United States often becomes unavailable to domestic consumers when foreign prices are high. Consumers prefer a constant source of supply, but it is becoming increasingly difficult for con-

sumers of slab zinc to justify increased uses of this metal because of the wide price variation. We in the zinc industry must face up to this problem at once."

The current year will be a "big zinc die casting year, and, at the present rate, if continued, will be the biggest in history," W. J. During, executive vice-president of Precision Castings Company, Fayetteville, N. Y., declared. "But unless stability exists, unless some reasonable pattern of price movement exists, unless frequent as well as violent price fluctuation is eliminated, this picture can change overnight," Mr. During said.

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Foote Mineral Preparing For New Expansion Phase

Foote Mineral Company, Philadelphia, has hit a plateau in its growth curve during which organization and consolidation for the next phase of expansion is taking place, H. Conrad Meyer, chairman of the board, told stockholders at the company's recent annual meeting. He noted that the firm's business in 1952 continued at a level which has been maintained of late.

Sales for 1952 were $7,790,223 and earnings after taxes were $329,862, or $1.23 per share of common stock, both slightly under 1951. Mr. Meyer felt that increases should result as the production from the new fully integrated lithium expansion becomes available, but added that although these facilities should be completed within the next few months their output is not likely to have much effect until late in the year.

The company believes its holdings at Kings Mountain, N. C., represent the most economically favorable lithium ore deposits in the world. However, it was pointed out, the concentration of these ores is a difficult operation and considerable work must be done to obtain maximum yields. Foote is concentrating on getting its Kings Mountain operation and its new lithium chemical plant at Sunbright, Va., into operation, Mr. Meyer said, "since it appears that the demand for lithium products is growing steadily and a substantial part of the new capacity will have a ready market."

Present directors of the company were reelected and I. Melville Stein, executive vice-president of Leeds & Northrup Company, was elected a new director.

Davison Dedicates New Cracking Catalyst Plant

Davison Chemical Corporation, Baltimore, Md., dedicated its new $7,000,000 plant for the production of synthetic fluid-type petroleum cracking catalysts at Lake Charles, La., April 28. Rated annual capacity of the new plant is 45,000,000 pounds of catalyst, which, Davison said, is sufficient under average conditions to process 200,000,000 barrels of petroleum. Sodium silicate is also being produced.

Gov. Robert F. Kennon of Louisiana made the formal dedication in ceremonies at the plant. Companies in the rising petrochemical industry of the Gulf Coast area who participated were Esso Standard Oil Company, Cities Service Refining Corporation, Cit-Con Oil Corporation, Firestone Tire & Rubber Company, Continental Oil Company, Mathieson Chemical Corporation and Columbia-Southern Chemical Corporation.

With the Lake Charles opening, Davison officials announced that the concern's capacity for production of the synthetic cracking catalyst exceeds that of the remainder of the industry. It has additional facilities at Curtis Bay (Baltimore) and Cincinnati, Ohio. This petroleum cracking catalyst, it was stated, consists essentially of silica and alumina—approximately 87 percent SiO_2 and 13 percent Al_2O_3. Other constituents are present in extremely small amounts, it was added.

Delanium Carbon Names 2

A promotion and an appointment in its sales organization have been announced by Delanium Carbon Corporation, New York, subsidiary of the Great Lakes Carbon Corporation. Robert F. Hainge, sales staff, has become sales manager with responsibility for all sales and sales promotion activities. Thomas D. Tervoe, formerly with Mercer-Robinson Company and the M. W. Kellogg Company, has joined the New York sales staff.

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Gen'l American Develops New Type of Freight Car

A new type of freight car—the "Airslide car—which is claimed to make practical and highly economical for the first time the bulk shipment and handling of a wide range of dry powdered materials, such as feedstuffs, chemicals, starches and similar commodities, was announced last week by William J. Stebler, executive vice-president of General American Transportation Corporation, Chicago.

Substantial savings in containers, dunnage and labor, it was said, will now be available to shippers for which bulk handling has not previously been considered practical. In addition, it was stated, the car also provides improved sanitation and less danger of contamination.

"The 'Airslide' car is a radically new type of covered hopper car," Mr. Stebler said. "Because of its radically different type of construction, the car can be built in sizes of 2000, 2600 and 3600 cubic feet to cover the whole range of powdered commodities of varying densities," he added.

The new car, Mr. Stebler explained, was designed in collaboration with the Fuller Company of Catasauqua, Pa., utilizing the Fuller "Airslide." The essential part of the "Airslide" is a fabric of special design stretched over a U-shaped shallow steel channel. The channel below the fabric forms a plenum chamber into which air is introduced at a pressure of approximately one pound per square inch, and in varying quantities, depending upon the material to be transported. The "Airslide" slopes toward the center of the car, and as air is forced through the fabric, slowly permeating the commodity above the fabric, the lading is aerated and fluidized, causing it to flow like water to the unloading point.

Refractory Specialties Plant Being Built by Int. Minerals

Construction of a new refractory specialties plant at Janesville, Wis., having a capacity of 75,000 tons a year has been announced today by the Industrial Minerals Division of International Minerals & Chemical Corporation, Chicago.

Chief product of the new plant, construction of which is scheduled to get under way immediately, will be a granular refractory for air application in the patching of metal melting furnaces. This is the fourth plant of such refractory specialties to be erected by eastern clay products department of International's Industrial Minerals Division and is so located as to reduce freight rates and speed shipping services, the company said.

N.E. Chemical Club Elects E.C. Richardson President

E. C. Richardson, of U.S. Industrial Chemicals Company, has been elected president of the Chemical Club of New England. Other officers recently chosen are:—Vice-president, Howard C. Cookingham, D. H. Litter Company; secretary, Howard J. Heffernan, Monsanto Chemical Company, and treasurer, Morton S. Johnson, Solvay Process Division of Allied Chemical & Dye Corporation. George W. Smith, E. I. duPont de Nemours & Co., has been named a director for three years.

Monsanto Mid-West Sales Office Moved to Cleveland

The mid-west sales office of Monsanto Chemical Company's Texas division, has been moved from Akron, Ohio, to the company's sales offices in the Union Commerce Building at Cleveland, Ohio, it has been announced.

John Clopton, the division's mid-west sales representative, said the move will permit better servicing to customers for the division's styrene, vinyl chloride and acrylonitrile monomers.

Beckman to Open N.J. Plant

Transfer of its New York offices to a new, 20,000 square-foot plant in Mountainside, N. J., has been scheduled this month by Beckman Instruments, Inc., South Pasadena, Calif. The air-conditioned brick structure, tripling the size of Beckman's current east coast operation, will function as northeast sales and service headquarters for the parent company, and also will provide a branch manufacturing facility for the Beckman Helipot division, maker of helical potentiometers.

Arkell & Smiths Appoints

Arkell & Smiths, Canajoharie, N. Y., has announced the appointment of E. K. Schultz as a sales representative of its central division in the Michigan area.

Water Repellent for Fabric Uses Announced by American Resinous

American Resinous Chemicals Corporation, Peabody, Mass., has announced a new, renewable water-repellent, "Arcopel W-18," for treatment of fabrics. High emulsion stability, low dynamic absorption even after wet mechanical action, and elimination of foaming are among its advantages, according to the producer.

Metal Cans Shipments: Jan.

Total shipments of metal cans during February were 7 percent below shipments during January but were 7 percent above shipments during February, 1952, according to the Bureau of Census. These figures are based on metal can shipments expressed in terms of weight of steel consumed in the manufacture of the cans shipped. In February metal can shipments amounted to 252,084 short tons, compared with January's figure of 269,597 short tons, and 235,648 short tons in February, 1952.

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Agricultural Chemicals

Index declined last week to 111.55 from 111.99 in the preceding period. Relaxation of demand brought about a decline in domestic steamed bone meal and nitrogenous process tankage was offered at a lower price by an out of town producer. This material was exceedingly scarce most of last year and many consumers were forced to shift to castor pomace. At present demand is dragging for both materials. Dried blood and tankage responded to light midwestern buying and closed fractionally higher at Chicago but were unchanged in price in the local market. Sellers of hoof meal held the price at the late decline regardless of the reluctant attitude of buyers.

Coke-oven ammonium sulphate was in strong demand with some producers experiencing difficulty in keeping their shipping schedules up to date. Superphosphate was in active demand with the midwest calling for immediate deliveries. There were instances where producers had to move stocks of super from the southeast to level off requirements. The trade is looking for higher prices for normal superphosphate in the early part of the new season to cover the increased cost of sulphur. Another large potash producer has named contract prices unchanged and effective from April 23. Steady demand for home and export has kept phosphate rock in a relatively tight supply condition. No easement in supply could be noted in ammonium nitrate or nitrate solutions. A leading producer of nitrogen solutions will advance prices July 1.

Price Trends

Advanced

Blood, dried, Chicago, 25c. per unit of ammonia.
Tankage, Chicago, 25c. per unit of ammonia.

Reduced

Bone meal, steamed, domestic, $5 per ton.
Nitrogenous process tankage, 80c. per unit of ammonia.

Comparative Price Indexes

(100=1949 average)

Last week	Prev. week	Last month	May 2, 1952
111.55	111.99	112.09	114.17

(*For Current Prices see page 9*)

Fertilizer Materials

Ammonium Sulphate — Cokeoven sulphate continued in heavy demand last week and some of the Pittsburgh producers were reported to be slightly behind on shipments. It is expected the peak movement will be reached this month.

Bone Meal — Domestic steamed was priced lower with sales at $65 per ton, carlots, works, last week. This is a decline of $5. Demand slowed down and sellers were required to cut the price in order to induce buyers.

Calcium Ammonium Nitrate—While foreign material is still coming in, the tail-end of the season is not far off. Material along the Atlantic seaboard was priced at $51 per ton f.o.b. cars.

To meet growing needs, Egypt produced 140,000 metric tons of calcium nitrate (28,000 N) in 1951 and has facilities for expanding production to 250,000 tons. As part of the electrification project at Aswan Dam, it has been proposed to build by 1957 an ammonium-nitrate plant with an annual capacity of 370,000 tons of nitrogenous fertilizers, which would greatly reduce the country's dependence upon imports of these materials.

Dried Blood—Priced a bit higher in Chicago at $5 per unit of ammonia but unchanged at $4.75 in the local market. Not much activity in either area.

Fish Meal—Quiet at present. The Department of Interior, Fish and Wild Life Service, states, in part, that the unprecedented demand for fish meal has kept prices at the ceiling practically throughout 1952 and so far in 1953 as ceilings were in force. This situation is quite different from that in feedstuffs generally, where the price level in 1952 was much above that of 1951 and 1950 until September.

Lime—Bureau of Mines placed sales for agricultural use in February at 17,695 tons, including 2,981 tons of quicklime and 14,714 of hydrated lime. The total for January amounted to 11,191 tons.

Nitrogen Solutions—An important producer announces that nitrogen solutions—2A, 3 and 4 will be advanced in price to $128 per net ton of nitrogen f.o.b. Hopewell, Va., or South Point, Ohio. The price for nitrogen solution 6 will be $128 per net ton of nitrogen, f.o.b. South Point, Ohio. The new prices will become effective July 1.

Nitrogenous Process Tankage—Demand has relaxed to some extent and the price range is lower, possibly too low to induce foreign material from entering the market. At the close, the range was from $4.20 to $5 per unit of ammonia, the inside figure being for May-June shipment.

Phosphate Rock—Firm under a strong domestic demand. It was stated that, while some 68 percent was available, the overall supply situation is relatively tight. According to trade estimates, the recent Dutch purchase will run around 200,000 tons for shipment over the balance of the year.

Sweden produces the following types of fertilizers: Superphosphate, basic slag, potassium sulphate, calcium cyanamide, potassium nitrate, and ammonium sulphate. Production of superphosphate is entirely from imported phosphate rock. Imports of the latter amounted to 383,000 metric tons in the fiscal year 1951-52. The output of superphosphate is estimated at 530,000 tons in 1952-53, which will cover all domestic needs.

Potassium Muriate—Another large producer has announced the new season contract price at 43c. per unit of K_2O for bulk shipments f.o.b. Carlsbad, New Mexico for standard 60 percent grade. An additional charge of $4.25 per ton will be made for this material in multiwall bags.

Sodium Nitrate—Shipments of steady dimensions are going forward to meet seasonal requirements. While domestic nitrate held a tight position, imported material has been adequate to meeting current needs.

Superphosphate—Demand was reported strong, particularly from the midwest and in some instances, producers have been forced to move stocks held in Georgia and South Carolina in an effort to level off demand. The market position is firm with a tendency to harden. There may be an advance in prices announced for June 1 or July 1. The trade is looking for a 4c. to 5c. per unit increase for the new season to cover the higher sulphur price.

Tankage—Unchanged at $4.75 per unit of ammonia in New York but a slight increase in western buying advanced the price at Chicago to $5.

Los Angeles Market

Los Angeles.—Some improvement in sales of organics was noted during the past week. Arrivals of Canadian materials were better with only short delays involved. Blood meal and tankage displayed a better tone. Domestic fish meal was sustained at its former price while tankage held its own. Ruling prices were:—Ammonium nitrate—$85.30 per ton, domestic, f.o.b. Los Angeles. $86.54 per ton for Canadian material, f.o.b. Los Angeles.

Ammonium phosphate—$77.14 per ton, in bags, 16/20 grade, f.o.b. Los Angeles. $103.64 per ton in bags, 11/48 grade, f.o.b. Los Angeles. Both Canadian material.

Ammonium sulphate—$55.03 per ton in bags, domestic, f.o.b. Los Angeles. $3 less for bulk. Canadian material same.

Pesticides

Inquiry is gaining with each successive week with a moderate increase in sales. According to early reports, the Winter's hibernation of boll-weevils is extensive in some southern areas, the greatest since 1949. It is pointed out, however, that weather conditions will be the regulating factor in determinating the amount of infestation. DDT remained firm at 23c. with stocks not too free at this figure. BHC was unchanged at its low price with possibilities vague about any lower level. Sales of 3-5-40 were reported in the Southwest at 8c. to 8½c. per pound with most sales at the inside price. No complaints were heard regarding the movement of botanicals. Pyrethrum sales have been good and the same is reported in rotenone. Ground sabadilla is steady at 35c. a pound. Calcium arsenate continued quiet with a little more activity in lead arsenate for fruit tree spraying although it was stated that sales in the Hudson Valley have been retarded to some extent by cold weather. Allethrin has found a steady outlet both for governmental and civilian use.

Sulphur, Dusting — The 93 percent through 325 mesh in bags will be advanced to $2.50 per 100 pounds and the 98 percent through 325 mesh to $2.60 f.o.b. mines. At Atlantic seaboard factory, prices are 60c. per 100 pounds higher. The change will become effective June 1.

For Late Market Developments, See Page 4

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Rodent Repellent Developed By Goodrich Chemical Co.

B. F. Goodrich Chemical Company, Cleveland, Ohio, has developed a rodent repellent material called "Good-rite z.a.c." that may be incorporated into packaging materials of all types. Several years of active testing show that the product, which is zinc dimethyl dithiocarbamate-cyclohexylamine complex, protects packaged foodstuffs from rodent attack. These tests were made at the wildlife research laboratory, Fish and Wildlife Service of the Department of the Interior in Denver, Colo.

Boxes coated with "Good-rite z.a.c." repelled rodent attack for as long as forty-five days in some tests. Similar results have been determined in tests involving multiwall bags, burlap, and other packaging materials, Goodrich announced. The product is odorless and repells on a taste principle. It is compatible with most synthetic resins, starches, pigments, dyestuffs, oils, and may be used in any conventional coating, binder, or size now used by the paper, textile, twine, or adhesive industries, the company stated.

Nitrogen Plant in Finland Reported in Full Operation

The nitrogen plant at Oulu, Finland, which began operations in September, 1952, is virtually in full production, according to the Department of Commerce. It has an annual capacity of 16,000 metric tons N, of which 13,000 tons will be used in the manufacture of fertilizers and most of the remainder to make ammonia. The plant is delivering 150 tons of fertilizer daily.

Domestic output is expected to cover about 50 percent of the nitrogenous fertilizer goal in the coming agricultural year, but only a small part of immediate requirements in the spring of 1953. The factory will soon begin production of ammonia for delivery to the sulphuric acid plant at Kokkola to be used in the production of ammonium sulphate.

Gerdau Co. Named Agent

The Otto Gerdau Company, 82 Wall street, New York, has been named export representative by Motomco, Inc., for foreign sales of "Pival," the new anti-coagulant rodenticide, in Latin America, excluding Mexico; the Far East; Australasia, and Africa.

Wilson Organic Adds Greene

Joseph G. Greene has joined the technical staff of Wilson Organic Chemicals, Inc., Sayreville, N. J. For the past ten years. Mr. Greene had been with Merck & Co., Rahway, N. J.

German Patent Data Available

M. M. Schrotter, P. O. Box 126, Bloomfield, N. J., has available special lists of abstracts of German petrochemical patents and patent applications on the following subjects:—Acetylenic hydrocarbons (twenty-five); oxidation of hydrocarbons (fifty-eight); halogenation of hydrocarbons (forty-eight); hydrocarbon conversion—amortization, dehydrogenation, isomerization, etc. (sixty-nine); carbonylation (ozo) and Fischer-Tropsch reactions (forty-three); gas purification (twenty-one); petroleum lubricating oils, synthetic lubricants and lubricating oil additives (thirty-nine). The figures in parentheses indicate the approximate number of separate items in each list.

Pyrene Develops Device For Oil, Chemical Fires

A spray-type foam maker, designed to blanket flames with air foam over a wide area all at one time, has been developed by Pyrene Manufacturing Company, Newark, N. J., for overhead protection of medium-sized petroleum and chemicals hazards.

The foam maker, generating the fire-fighting foam directly at the hazard, is equipped with a cone-shaped spray head which discharges an even pattern. The device is for use in fixed systems, singly or in multiples, indoors or out. Pyrene stated the foam maker is for protection of oil-filled transformers, pump rooms, loading racks, drip pans, drain boards, sumps, process tanks, oil drilling rigs and scores of other hazards in petroleum and chemicals storage, loading and production areas.

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Austrian Nitrogen Works Made Output Gain in '52

The Austrian Nitrogen Works produced 462,322 metric tons of nitrogenous fertilizers in 1952, compared with 436,000 tons in 1951, according to the Department of Commerce. Output is expected to reach 500,000 tons in 1953. As domestic consumption increased to 128,750 tons in 1952 from 102,900 tons in 1951, exports decreased to 261,862 tons from 274,160 tons. Production of ammonium sulphate began in 1952 and output for the year totaled 32,000 tons.

The plant invested 160,000,000 schillings toward completion of gypsum sulphuric acid and superphosphate factories and construction and maintenance of operating plants. The investment program for 1953 envisages completion of the sulphuric acid plant and continued work on the superphosphate factory.

Farley Appointed Director Of Fish & Wildlife Service

Secretary of the Interior Douglas McKay has named John L. Farley director of the Fish & Wildlife Service. He will succeed Albert M. Day, who has been offered another post in the service. Mr. Farley served as executive officer of the California division of fish and game from 1929 to 1935 and until 1940 was in community relations work with Crown Zellerbach Corporation in Seattle, Wash. He served in the army from 1940 to 1945, returning to Crown Zellerbach in the latter year.

Wyandotte Names Gray To Controller's Position

Appointment of Donovan J. Gray as controller of Wyandotte Chemicals Corporation, Wyandotte, Mich., has been announced by Robert B. Semple, president.

Mr. Gray had been controller of L. A. Young Spring & Wire Corporation since 1947. He functioned in various accounting capacities with west coast concerns until 1934, when he joined L. A. Young in Detroit, Mich.

Hooker Appoints Two

Hooker Electrochemical Company, Niagara Falls, N. Y., has announced two new appointments. Mrs. Rena S. Johns has been engaged as a research chemist in the development and research department and Harman Harrow has become a personnel assistant in the industrial relations department.

Before joining Hooker, Mrs. Johns was a chemical analyst at Eastman Kodak Company, Rochester, N. Y. Mr. Harrow had previously been with the New York State Department of Labor.

Potassic Fertilizer Pact Extended

An agreement between Chile and France granting concessions for the importation of potassic fertilizers has been extended, according to a report from Santiago. However, the concession apparently has not been of great importance to Chilean farmers or French exporters so far, as only 125 metric tons of potassium chloride were imported in the period January-November, 1952.

Trade Briefs

F. E. Richardson, jr., has been made manager of Pennvernon window glass sales for Pittsburgh Plate Glass Company.

Ernest K. Bean has been named patent counsel and manager of plastics and information of the research and development department of the Chemstrand Corporation.

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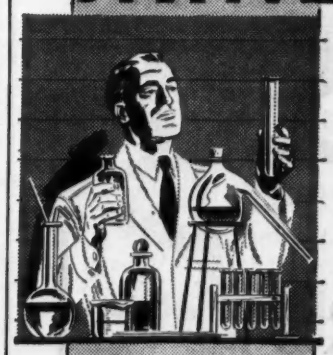

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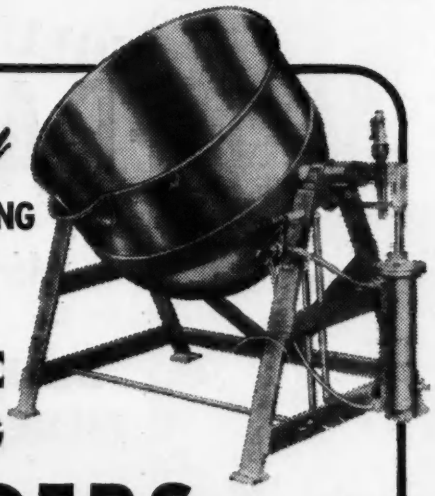

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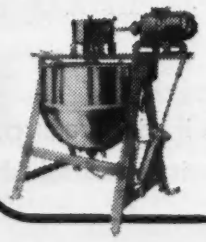

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Petroleum Derivatives

Reductions in Number 2 fuel oil and in kerosene for quantities up to and including tankcar in size were effected in the N. Y. Harbor area in a move designed to stimulate sales during the normally slow summer months. The discounts from established prices were expected to bring about a faster flow of material into storage at a time when sales usually lag behind those of the rest of the year. Prices for other products held steady within previously established ranges.

Supplies of toluol remained tight and presented a problem to industrial consumers, who found that the bulk of production was required by the government. One major producer reported the entire output of its newly completed facilities going to military purposes, including aviation gasoline and the manufacture of TNT. The current output of xylol was barely able to fill demand and this material remained in a position of snug balance at best. As yet, however, written directives have not been used by the government to obtain requirements of xylol.

Wax production showed the effect that current cutbacks in lubricating oil have produced. Material was available in smaller quantities and surpluses resulting in former months were sharply reduced. A noticeably easier demand for liquefied petroleum gases brought a weaker undertone to prices, although established quotations were maintained without change. The decline in consumption amounted to no more than usual for the season, and was modified to some extent by purchases for storage. Imports of crude oil fell below the one million barrel per day figure for the second consecutive week. Demand for petrolatums was moderate and was filled without difficulty from current production. White mineral oils were in routine demand and remained without special feature.

Solvents and Diluents

Cleaners' Naphtha—A moderate demand was noted during the past week and trade sources stated that little change in the overall supply situation had appeared. An ample amount of the material was available, according to trade reports, to fill consumers' needs without difficulty. No obstacles were encountered in production to prevent a continued supply of product in at least the quantities already being put on the market. Prices held steady at their earlier levels.

Mineral Spirits—Following a first quarter notable for a heavy demand from industrial users, a continued active call has been reported by manufacturers. Production schedules have been maintained at levels that permitted filling orders without delay in most cases, and a continued good balance was expected in the trade. Prices remained stable at existing levels, with no changes indicated in the immediate future.

Toluol—One major producer has recently completed new production facilities in Texas and reports shipping toluol now in tankcar quantities. The material from the new plant is going entirely to the government for military requirements, it was stated, and none at all will be available for civilian consumers. For this reason the new facilities were expected to affect the industrial supply situation only indirectly by lessening to some degree the strain of heavy military requirements. Large government purchases for aviation gasoline and for TNT have kept the material in tight supply in spite of producers' efforts to fill both military and industrial needs. One result has been to force some non-military users to substitute less scarce materials where possible.

Xylol—Latest estimates indicated that xylol had become almost as tight in supply as toluol. A very active call from consumers has kept material from current production moving fast and has permitted no extensive buildup in inventories. Manufacturers have maintained their output at the highest levels currently possible, but in some cases have turned facilities capable of production of both toluol and xylol to the scarcer material. Government directives have not as yet been issued for the procurement of xylol, it was stated.

VM&P Naphtha—The material was produced in ample volume to satisfy current market requirements, causing little if any difficulty in obtaining supplies. Industrial consumption has remained good, it was stated in the trade, and showed no tendency to decline noticeably in the immediate future. All indications pointed to a continued good balance between production and consumption, with prices remaining stable at their current levels.

Price Trends

Advanced

None

Reduced

Fuel oil, furnace, N. Y. Harbor, No. 2, ½c. per gal.
Kerosene, N. Y. Harbor, 43-44 s.g., w.w., ½c. per gal.

Comparative Price Indexes

(100=1949 average)

Last week	Prev. week	Last month
104.49	104.50	104.48

(*For Current Prices see page 9*)

Crude Oil Stocks

Stocks of domestic and foreign crude petroleum at the close of the week ended April 18 totaled 276,691,000 barrels, according to data reported to the Bureau of Mines. Compared with the total of 274,964,000 barrels for the preceding week, this represents an increase of 1,727,000 barrels, comprising an increase of 2,442,000 barrels in stocks of domestic crude and a decrease of 715,000 barrels in stocks of foreign crude.

Lighter Fractions

LPG's — Consumption showed little change from the week previous but reflectd a gradual decline from the high level attained during the winter months. The gradual dropoff in demand followed usual seasonal trends and showed no undue acceleration, trade circles reported. Lowered requirements for heating were augmented, however, by purchases for storage, it was stated. The current situation helped maintain an easy supply balance, with deliveries reported made on schedule for almost all orders. Price schedules were maintained without revision by major producers although some signs of weakness were noticeable.

Waxes

Microcrystalline—Active demand for material cut further into available supplies, bringing the supply situation into closer balance. Production of all petroleum source waxes has fallen below levels of recent months, largely because of decreased lubricating oil production, trade sources stated. As a byproduct of lube oil manufacture, petroleum waxes were directly affected by the current situation of oversupply and the resulting cutback in production. One chief cause of surplus lube oils, according to an informed source, has been the increased production facilities in Europe and the resulting decline in dependence of that continent on supplies of lubricating oils from this country.

Paraffin—Price schedules were maintained without change and showed a firm undertone. Consumption followed the trend of other waxes and remained close to the current level of production. As a result there was very little excess material on the market.

Miscellaneous

Fuel Oil—A discount of ½c. per gallon from prices previously in effect for No. 2 fuel oil was effected in the New York area by one major supplier at the beginning of the week. Other suppliers met the new prices and the discount became general. The discount applied to tankcar and to smaller quantities and brought the minimum price for this grade of fuel oil to 10¼c. per gallon. The action was taken in order to encourage sales for stocking purposes during the summer months, it was reported by the company.

Kerosene—Established prices in the New York area were lowered ½c. per gallon by one major company for its deliveries in tankcar and smaller amounts. The action established a current low price of 10¼c. per gallon and was designed to stimulate sales during the usually slow summer season. Other companies followed suit later in the week.

For Late Market Developments, See Page 4

Ind. Standard Announces Shifts in Sales Department

Standard Oil Company (Indiana) has made several appointments to advanced positions in the sales department, headed by that of C. C. Inglefield, manager of Standard's South Bend, Ind., sales field, who has been promoted to assistant general manager of operations, a new position, at the company's general office in Chicago, Ill. He will have charge of all operating activities in the sales department, including supervision of the sales operating department and the construction engineering department.

R. E. Lee, manager at Decatur, Ill., succeeds Mr. Inglefield at South Bend. H. L. Poole, assistant manager-reseller at St. Louis, Mo., has been promoted to manager at Decatur, succeeding Mr. Lee C. E. Beatty, assistant manager-reseller at Peoria, Ill., has been transferred to the same position at St. Louis to succeed Mr. Poole, H. F. Riedel, sales manager-reseller at the general office in Chicago, has been appointed assistant manager-reseller at Peoria, succeeding Mr. Beatty.

A. C. Bradley, assistant manager-consumer at Joliet, Ill., has been transferred to the same position at St. Louis, succeeding J. A. Lampe, who will be assigned to other duties. J. R. Richardson, sales manager-consumer at Peoria, has been appointed assistant manager-consumer at Joliet, succeeding Mr. Bradley.

Texaco Contract to Kellogg For Key Units at Amarillo

The Texas Company, New York, has awarded a multi-million dollar contract in connection with the complete modernization of its Amarillo, Tex., refinery to the M. W. Kellogg Company, New York. Effect of the Texas Company's overall program will be virtually to double the current capacity of the refinery. Other major processing equipment in addition to that under contract to Kellogg has also been sceduled. Cost of the new equipment and revamping necessary to complete the renovation is approximated at several million dollars.

Kellogg-designed units will include crude distillation, delayed coking, orthoflow fluid catalytic cracking, and catalytic polymerization, the first two of which are integrated into a combination unit. Approximate capacities in barrels per stream day of feed are as follows:—Crude distillation 15,500; delayed coking, 3,600; cat cracking, 6,000 (about 10,000 with recycle). The polymerization unit is rated at about 470 barrels per stream day of polymer gasoline. (These figures are based on the processing of Panhandle crude, although the refinery is also designed to handle Hockley crude.)

Ethyl Promotes Ostrander

The appointment of R. J. Ostrander as assistant to Dan M. Guy, director of technical service at the research laboratories of Ethyl Corporation in Detroit, Mich., has been announced. Formerly supervisor of motor vehicle operations, Mr. Ostrander will be succeeded in this position by H. A. Toulmin. Announcement has also been made of the appointment of Gerald Stanke to the newly-created position of assistant research supervisor for motor vehicle operations at the Detroit laboratories.

Sonneborn Names Schindler

L. Sonneborn Sons, Inc., New York, has named Dr. Hans Schindler manager of its Daugherty refinery at Petrolia, Pa. He succeeds T. M. Murphy, who recently retired after forty-nine years of service. Dr. Schindler has served in several capacities at the refinery, including those of research chemist and personnel director. The refinery produces white mineral oil, petrolatum, petroleum sulphonates and microcrystalline wax.

Sun Promotes Banta

James E. Banta has been appointed general manager of the motor products department of the Sun Oil Company, Philadelphia. Mr. Banta, formerly assistant manager of Sun's central marketing region, succeeds Maximilian H. Leister, who has retired after thirty-two years' service.

Interior Dept. Gets Funds

—Continued from page 3

government spending for research on grounds that petroleum supplies are exhaustible and new sources of fuels will have to be developed for the future, especially as a national defense measure, because experience of the last war showed that the country could not rely on overseas transportation to fill our needs. Tankers are too susceptible to submarine attack, he emphasized.

Mr. Celler also argued that even if the plants were made available to private interests, they would not be used for fuels production, but for the production of chemicals. He said:—

Aims of Private Industry

"Private industry will enter the picture, yes; private industry will enter—for what purpose? Not for the manufacture of oil. The Bureau of Mines has given us a very interesting report on the number of by-products that can be developed by this process. The part of private industry that is interested is the chemical companies. They are interested only in the chemicals to be made. They are not going to make oil."

Mr. Celler read from a report of the Bureau of Mines on the chemicals that could be produced annually from a single 15,000-barrel-per-day prototype coal hydrogenation plant. They included:—16,710,000 gallons of benzene; 29,817,000 gallons of toluene; 34,033,000 gallons of xylenes; 812,000 gallons of isopropyl alcohol; 6,718,000 gallons of ethyl benzene; 56,940,000 gallons of naphthalene; 28,733,000 gallons of phenol; 27,681,000 gallons of metaparacresol; 6,132,000 gallons of 3-5 xylenol; 31,500,000 gallons of special xylenol; 82,081 tons of ammonium sulphate and 125,700 tons of sulphuric acid.

"Those are valuable chemicals, all in short supply," he continued. "Several are on the critical list. Several are imported. Goodly sums of money can be made from their production, and they can be produced from coal and shale. You do not mean to tell me that these chemical concerns are going to pass by the manufacture of these very important chemicals now in short supply, for which they can get huge sums of money and devote themselves to the manufacture of oil. They would be foolish to do so."

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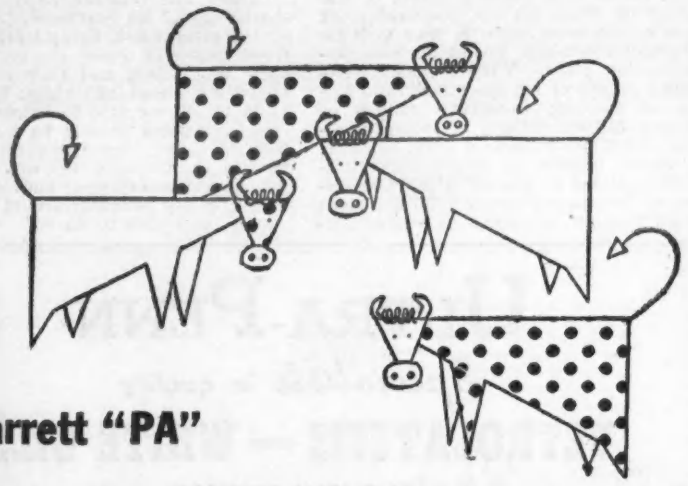

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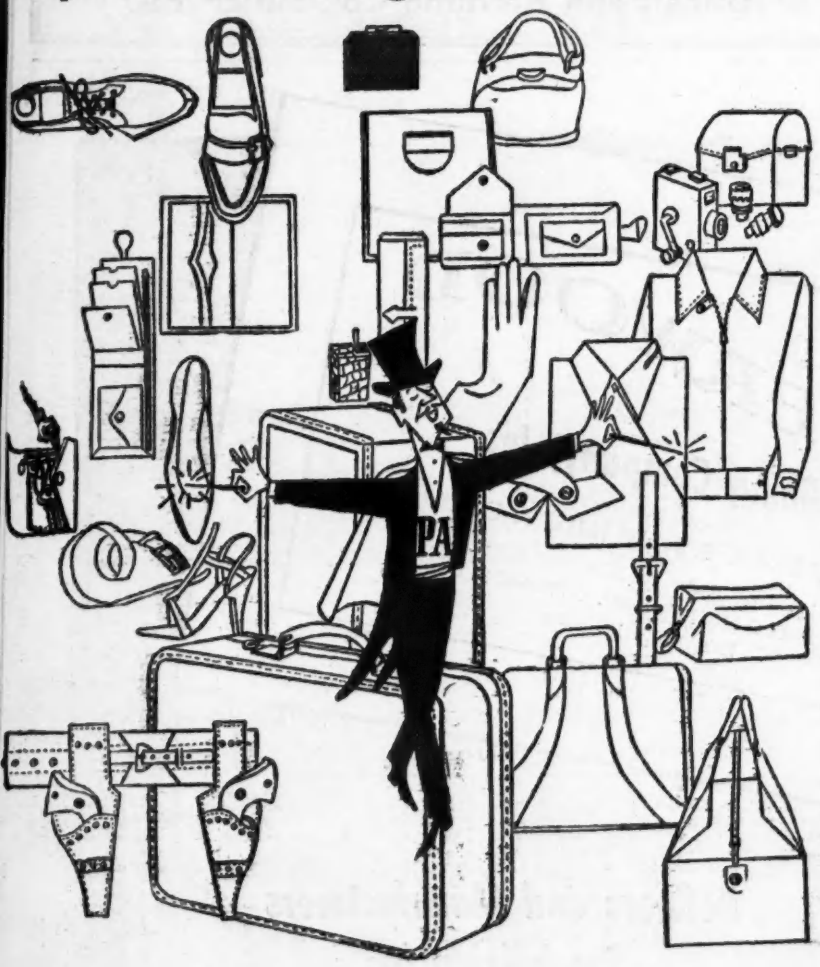

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Pickling Inhibitors	"ELASTEX" DCHP Plasticizer	Neutral Coal-Tar Oils
Benzol	"ELASTEX" 50-B* Plasticizer	Coal-Tar Creosote
Toluol	Phenolic Resins	Bardol* Rubber Compounding Oil
Xylol	Urea Resins	Flotation Agents
Naphthalene	Niacin (Nicotinic Acid)	CUMAR* Paracoumarone-Indene Resin
Hi-Flash Solvent	Isonicotinic Acid	
Phthalic Anhydride	Pyridines	

*Reg. U. S. Pat. Off.

Coal Chemicals

There were no price changes in coal chemicals last week. The market conditions of most of these materials were virtually unchanged. Most sources reported that they felt prospects for the rest of the second quarter were reasonably good. None said that they expected a great surge in buying. But, most anticipated that business would sustain the present levels, which were generally satisfactory.

Demand for aromatics continued to be strong. Producers were selling all of the benzol, toluol, and xylol that they made. Heavy government requirements of toluol for TNT and aviation gasoline have made the shortage of toluol for industrial users acute. Where it was necessary and practicable, consumers were replacing or supplementing their supplies with xylol, which in turn was tightening up the xylol picture.

The cresols and cresylic acid were not moving at a lively pace. The situation among various producers differed to a slight extent. Sales of these tar acids were no more than barely satisfactory for any of the regular sources. There was also a slight difference in the volume of orders for various isomers. Importers said that buying of ADF cresylic acid was on the slow side, especially in larger quantities.

Phenol was selling at a slightly better pace than the cresols or cresylic acid. Synthetic phenol was holding up fairly well. Crude naphthalene was not moving too well for either domestic producers or suppliers of imported material. Phthalic anhydride was getting tighter, due to consumer uneasiness over lost production time. The market for refined pyridin continued to show a reduction of pressure. Creosote was moving fairly well, but more could be sold by most sources.

Demand for anilin was still quite satisfactory. Maleic anhydride was said to be doing a little better. Capacity production of styrene monomer was not enough to take care of all the calls, according to one producer.

The American Iron and Steel Institute announced that the operating rate for the week ending May 2 was scheduled to be 100.3 percent of theoretical capacity. This was equivalent to 2,262,000 tons of ingots and steel for castings, compared with output of 2,276,000 tons the previous week, 2,190,000 tons one month ago, and 1,083,000 tons one year ago.

Basic Products

Benzol—Demand for the light oils has shown continued strength, and benzol is no exception. Producers were selling all of their output readily. Production was high enough to meet consumer's requirements without any real strain noticeable in the market.

It was felt that the current level of activity was expected to hold up for the rest of this quarter, at least. Prices have remained firm at their recently established schedules.

Creosote — Demand for creosote has held up to a fair level. There was enough material available so that producers could get practically any amount they wanted. Thus, sales were not considered to be heavy, but they were satisfactory. The market was expected to remain at approximately the same level of activity. Prices have been firm at their old schedules.

Cresols—Most producers said that demand for these tar acids was pretty much the same as it has been since the start of the year. Sales were said to range from fair down to slow. Some producers found theirselves in the middle of the picture with fair sales, but a little on the sluggish side. Some of the lesser activity could be traced to specific grades of material, although there was also a little variation among producers as to which grades were doing the best and which weren't moving too well. In general, the mixed metapara isomers seemed to be selling at a little better pace than orthocresol. Prices were stable at their previously established levels.

Cresylic Acid—Demand from cresylic resins was said to be fair, but not as heavy as it has been in the past. Some producers were reporting that sales were slow, while others said that activity was satisfactory. Prices have been unchanged from previous levels.

Importers said that there was still a moderate amount of business being done in ADF cresylic acid. Some sources reported that sales of imported acid were not too good in the past few weeks. One importer said that it has found less than carlot users were buying at a steady pace. Prices have remained at their old levels.

Naphthalene—There was no significant change in the market for this material. Domestic producers were moving their crude output slowly. Consumers were taking little more than their contract commitments. Refined naphthalene has not shown a real surge in activity for the moth control season, according to some sources. Although buying of phthalic anhydride has been a bit heavier due to the tight market conditions attendant with lost production of phthalic, producers felt that no drastic shortages of naphthalene would result from it.

Importers said that they were moving so little hot-pressed 78-degree naphthalene that it was difficult to accurately judge the exact price at which the material could be bought from foreign suppliers and sold in this market on a profitable basis. It was added that the market price appeared to be unchanged under those conditions. One source said that it has been able to purchase and import refined naphthalene at a price which made it competitive with domestic refined output.

Phenol — Activity for natural material was said to be the best in the tar acid picture. Sales have not been very heavy, but they have been satisfactory and were showing some improvement each month. The market for synthetic phenol has held to its own demand level for the past few months. Sources felt that April sales would prove to be at least as good a month as March.

The mainstay of the market for phenol was said to be found in the activity from phenolic resins and adhesives. Phenolic resins have enjoyed a good demand for industrial uses and trade sales for varnishes and other uses in the paint trade were beginning to show a pickup with the better weather. Consequently, the increased activity from that direction should be reflected in better phenol sales, if industrial sales of phenolic resins hold up as well as they have so far. Phenol prices have remained steady at previously established levels.

Pyridin—The market for this tar base continued to show signs of easing. Some material has been available and some cancellations have been noted. Both of these factors were considered unusual in the market for 2-degree refined pyridin, since it has been in such short supply for so long. Hence, the fact that any consumers had enough material to satisfy their needs was a new condition for this market. Producers reported that the situation has not changed so much that they could not sell their production. The demand was still there. One source was still working down its backorders. Several sources felt that an easy supply period was not in sight. As one producer put it, "It is not going to get sloppy. The market is just a little on the soft side now."

Toluol — Tight market conditions for toluol were showing every indication of remaining just as tight as it can get for the rest of May, at least. Government requirements for June were not known yet. Current allocations for TNT output and

Price Trends

Advanced

None

Reduced

None

Comparative Price Indexes

(100=1949 average)

Last week	Prev. week	Last month	May 2, 1952
113.71	113.71	113.26	113.71

(For Current Prices see page 9)

Production Estimate

Estimated output of coal chemicals recovered from cokeoven operations during the week ending May 2, was as follows:—

Ammonia liquid, NH_4	lbs.	1,057,173
Ammonium sulphate	lbs.	38,209,249
Benzol	gals.	3,654,798
Coaltar	gals.	16,763,742
Creosote oil	gals.	936,353
Naphthalene, crude	lbs.	2,532,520
Pyridin, refined	lbs.	27,164
Toluol	gals.	716,678
Xylol	gals.	191,801

For Late Market Developments, See Page 4

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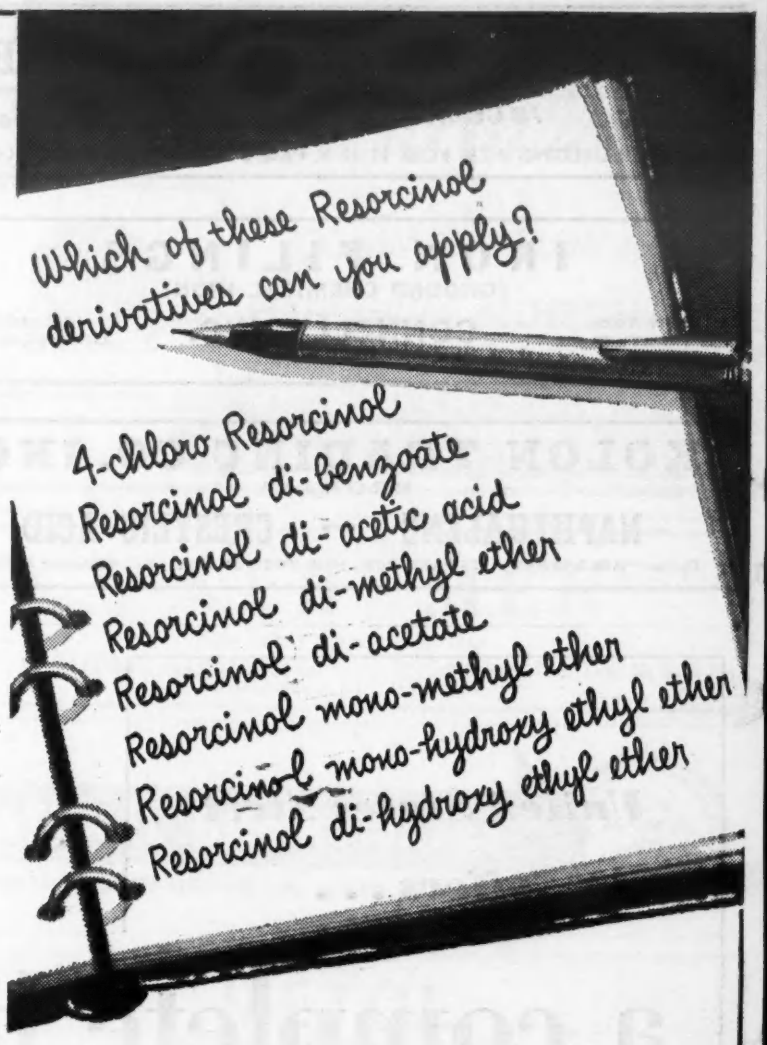

aviation gasoline production were quite heavy. Defense purposes have accounted for the largest share of toluol production keeping the market in short supply for the past six months or more.

Demand from industrial consumers has been good all during this tight supply period. However, it has not been extremely heavy, a source added. It was said that there would be ample material available for industrial needs if government requirements were to drop off. Defense requirements were not expected to be reduced until an adequate stockpile of TNT is attained.

Xylol—The market for this aromatic has been showing increasing signs of a tighter supply position. Much of the added interest in xylol was felt to be the side effects of the chronic shortage of toluol. Wherever consumers find that they can changeover to xylol and they are unable to get enough toluol for their output, the switch is being made, at least for supplemental supplies. Then too, the shortage of toluol has kept petroleum producers' equipment busy, thereby cutting down distillation time allotted for xylol output. Prices have remained steady at old schedules. No changes were anticipated at this time.

Intermediates

Anilin—Producers have been moving their output just about as fast as they made it. One producer was still in a slightly short supply position. There have been some indications that the pressure was reducing. Buying would ordinarily be expected to gradually reduce as summer approached, a source said. Another producer added that this was the normal behavior of the market, although there was nothing to guarantee that it would behave normally. Thus far, there has not been enough slackening for producers to cutback their production schedules.

While there was some feeling in the trade that a price advance in anilin schedules was not unlikely in the near future, higher-priced benzol figuring heavily in this line of reasoning, other observers pointed out that current market conditions and stiff consumer resistance would militate against such a move. As of last week there was nothing either way from major producers.

Octyl Phenol—A source reported that demand for this material was quite good. Production capacity is inadequate to take care of demand requirements, consequently a short supply situation has developed. Prices remained at their previously established levels.

Paranitroanilin—A producer of this intermediate announced that prices were scheduled to advance 2c. per pound on June 1. Other sources have not indicated any change in prices. Current quotations were at 48½c. per pound in drum carlots, and 51½c. per pound in less than carlots of drums.

Phthalic Anhydride—Producers reported that the market for this intermediate was getting a bit tighter due some uneasiness among consumers over the lost production of the past several weeks. One source stated that it was able to take care of the April business without too much trouble, but orders for May quickly reached capacity production levels, and it is unable to take care of all of the business coming its way.

Another source said that it was building up a backlog of orders. It was added that consumers were increasing their orders to the sources of supply which were currently able to take care of part of their requirements in order to make up for the supplies they could not get from other sources because of lost output.

A labor strike at one producer's plant has caused a loss of several weeks' production time. The duration of the strike is going to be a significant factor in the future shape of this market. Up until presstime no settlement had been reached.

On the brighter side of the picture, the producer whose plant is currently shut down, said that it would be able to make immediate shipments as soon as the dispute is over. Another aid to the tight situation was seen in the fact that new production facilities were due to come into operation in the near future. It was not known exactly when the plant would come in, but it could help to prevent a critical situation.

Styrene—A producer of monomer said it was temporarily in a short supply position even though operations were up at 100 percent of capacity. Demand has been good from all directions. Inquiries from polystyrene and rubber outlets were sustained at a sufficient volume to keep production up. Demand for styrene in polyester resins was showing constant improvement. Although reinforced plastics, where polyesters are used to a large extent, are still in their embryonic stage, the growth is steady and the potential was felt to be large. Prices of styrene monomer were unchanged.

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Koppers Chemical Expansion Forecast at Plant Dedication

Confidence in the future expansion of Koppers Company at the site of its new Williams ethylbenzene plant near Port Arthur, Tex., was expressed April 29 to more than 150 local business and civic leaders by Dan M. Rugg, vice-president and general manager of the concern's chemical division. Occasion for the forecast of growth in chemical production was the informal dedication program for the Williams plant consisting of a luncheon at the Avalon Cafe in Port Arthur followed by a tour of the plant by the guests.

In addition to Mr. Rugg's remarks, the luncheon program featured brief talks by W. F. Munnikhuysen, Koppers executive vice-president, and J. P. Williams, jr., a member of Koppers board of directors and consultant for whom the new plant is named. Mr. Williams was president of the company from 1939 to 1946 and chairman of the board from 1944 to 1950, serving in a dual capacity for a two-year period. H. E. Roche, Williams plant manager, introduced the speakers and expressed the company's gratitude for cooperation extended by all segments of the community to Port Arthur's new industry.

Referring to the fact that the first unit of the Williams plant occupies only a small portion of the 1040-acre plot purchased by Koppers two years ago, Mr. Rugg explained, "There's no secret about it. We believe that this area holds great promise. We want to grow here. I think I can safely say that we will grow here." He noted, however, that the company is now going through a period of consolidating its gains, and is not thinking in terms of immediate expansion. "But," Mr. Rugg added, "we have not intention of ceasing our growth for long. And certainly, Port Arthur is a most inviting location for future expansion.

Begun in 1951, the new Williams plant was designed and built by Koppers engineering and construction division. Partial production began some months ago, but only recently has the plant been on a full operating schedule.

New York AIC to Honor Dr. Herman Mark May 21

Dr. Herman Mark, head of the division of polymer chemistry, Polytechnic Institute of Brooklyn, will receive the 1953 honor scroll of the New York chapter of the American Institute of Chemists at its annual meeting May 21 in the Commodore hotel, New York. The citation to Dr. Mark reads:—"As scholar and humanitarian, teacher and expositor, scientist and researcher, you have given lavishly to young and old throughout the world. Beloved by students and colleagues, your adopted country proudly acclaims you for the distinction you have brought."

Dr. Emil Ott, director of research, Hercules Powder Company, Wilmington, Del., will be the principal speaker. The award will be presented at an open dinner meeting, preceded by a cocktail reception. Tickets may be obtained by writing or calling Dr. Albert Guiteras, Hudson Laboratories, Inc., 117 West 13th street, New York.

Dow Export Subsidiaries Technical Post to Mullison

Appointment of Dr. Wendell R. Mullison as assistant technical director of Dow Chemical International, Ltd., and Dow Chemical Inter-American, Ltd., has been announced by Clayton S. Shoemaker, president of both export subsidiaries of Dow Chemical Company, Midland, Mich.

Dr. Mullison, who served for seven years as a plant physiologist with Dow's agricultural chemical research department in Midland, will be associated with Dr. Frank B. Smith, technical director of the two export companies. He will be particularly active in technical service and development work connected with the sale of Dow agricultural chemicals abroad.

Prior to joining Dow in 1946, Dr. Mullison was associated with the biology department of Purdue University and later served as a plant physiologist with the Dutch firm, Curacaosche Petroleum Industrie Mij., Curacao Island, Venezuela.

Calco Canadian Business To Be Managed by Burkett

John R. Burkett, formerly assistant to the manager of dyestuff sales, Calco Chemical Division, American Cyanamid Company, Bound Brook, N. J., will manage the business of the Calco Chemical Division in Canada, North American Cyanamid, Ltd., effective July 1. Mr. Burkett joined Calco as a student trainee, serving in the production, purchasing and sales departments, and since 1946, as assistant to the manager of the dyestuff department.

Samuel Named Distributor

The chemical division of Frank Samuel & Co., New York, has been appointed distributor by Titanium Zirconium Company, Flemington, N. J., for that organization's line of zirconium salts.

Cyanamid Grants Include Awards In Chemistry, Chemical Engineering

American Cyanamid Company, New York, has announced a program of grants and fellowships to universities this year which includes seventeen graduate fellowship awards in chemistry and chemical engineering. The fellowships are awarded to graduate students commencing their final pre-doctoral year of study and carry a stipend of $1,500 plus full tuition and incidental laboratory fees. They also include $300 for unrestricted use by the department of chemistry or chemical engineering of the student's university.

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Textile and Leather Chemicals

Consuming demand for textile and leather chemicals last week, continued limited to prompt requirements. Market, however, remained on a steady basis and most items were quotably unchanged. Egg albumen was stronger and flake was boosted 8 cents per pound and yolk 2 cents per pound. Domestic potato starch was firmer and Maine starch was slightly higher, following moderate volume of business. Foreign potato starch continued inactive and unchanged.

Trading in tapioca flour was light and restricted to Java grades for spot delivery. Brazilian flour was practically unavailable on spot. Corn dextrin and starch was in steady request for immediate requirements. Demand for sago flour was spotty, chiefly for spot delivery.

Demand for tanning materials was limited to moderate quantities for prompt shipment. Producers of wattle extract are offering both South and East African extract for shipment at a minimum of 60 percent tannin, instead of 61 and 62 percent tannin as heretofore. Prices have been adjusted accordingly.

More cattle-hide parts but fewer cattle hides and calf and kip skins were licensed for export in the first quarter of 1953 than in the fourth quarter of 1952, according to the Office of International Trade. In the fourth quarter, 383,278 wet cattle hides, 113,667 wet calfskins, 222,275 wet kipskins, and 3,268,721 pounds of cattle-hide parts were licensed for export. In the first quarter, amounts licensed for export totaled 338,156 wet cattle hides, a decrease of 12 percent; 89,330 wet calfskins, a decrease of 21 percent; 156,210 wet kipskins, a decrease of 30 percent; and 4,122,046 pounds of cattle-hide parts, an increase of 26 percent.

Price Trends

Advanced

Egg albumen, flake, 8c. per lb.
Yolk, 2c. per lb.
Potato starch, Maine, 3/20c. per lb.

Reduced

None

Comparative Price Indexes

(100=1949 average)

Last week	Prev. week	Last month	May 2, 1952
103.11	103.09	103.09	87.07

(*For Current Prices see page 9*)

Chemicals

Acetic Anhydride—Consuming demand was moderate for prompt requirements. Prices were unchanged and steady.

Bichromates — Sizable quantities were absorbed against former orders. Demand for immediate delivery was fair. Market remained firm at prevailing quotations.

Sodium Acetate — Spotty demand was noted for actual needs. Prices were without change.

Sodium Hydrosulphite — Moderate demand was reported for prompt delivery. Prices were maintained at former levels.

Sulphonated Oils—Bulk of trading was confined to actual needs. Prices were well held for all varieties.

Sizing Materials

Blood Albumin—Fairly active demand was noted for prompt needs. Supplies were ample. Prices were steady at the recent decline in drum lots. Drums were held at 65c. per pound, and smaller lots up to 80c. per pound.

Corn Dextrin—Trading continued spotty, chiefly for prompt requirements. All grades were maintained at former quotations. Gum was quoted at $8.95 per 100 pounds, paper bags, carlots, New York delivery; canary, $8.69; dark, $8.79, and white, $8.53, same basis. Less carlots were 15c. per 100 pounds more.

Corn Starch—Consumers absorbed fair-sized quantities for actual needs. Prices were unchanged and steady. Pearl was quoted at $7.14 per 100 pounds, paper bags, carlots, New York, and powder, $7.26, same basis. Less carlots were 15c. higher. Visible corn stocks continued to drop, declining 904,000 bushels to 28,631,000 bushels for the week ended April 27, compared with 48,941,000 bushels for the same time last year, according to the Chicago Board of Trade. Stocks of corn stored in all positions, April 1, were indicated by the Department of Agriculture at 1,808,000,000 bushels, 20 percent larger than the 1,052,000,000 bushels held a year ago. CCC has extended loans one year on 1952 corn crop, which may total 500,000,000 bushels by the May 31 expiration of the eligibility period. Extended loans will be maintained through July 31, 1954, unless CCC demands earlier delivery.

Egg Albumen—Prices of flake continued to advance and were lifted 8c. per pound to $2.58 to $2.60 per pound, and powder, $2.62 to $2.64 per pound, according to quantity. Consuming demand was active, with trading of good volume at the higher levels. Technical was in fair request and unchanged at $1.03 to $1.07 per pound, as to quantity.

Liquid egg production during March totaled 71,690,000 pounds, compared with 62,658,000 pounds a year ago and the 1947-51 March average of 95,020,000 pounds, according to the Bureau of Agricultural Economics. The quantities produced for immediate consumption, freezing and drying were all larger than a year ago. Dried egg production totaled 2,120,000 pounds compared with 2,325,000 pounds in March of last year and the average for the month of 7,961,000 pounds. The quantity produced from frozen eggs was less than that of a year ago and accounts for all of the decrease shown in total production from a year ago. March production consisted of 244,000 pounds of dried whole egg, 539,000 pounds of dried albumen and 1,337,000 pounds of dried yolk. Production during March last year consisted of 336,000 pounds of dried whole egg, 639,000 pounds of dried albumen and 1,350,000 pounds of dried yolk.

Egg Yolk—Yolk also was stronger and advanced 2c. to $1.18 to $1.20 per pound, as to quantity. Trading was moderate, chiefly for prompt needs. Stocks were light and closely held.

Potato Starch—This market was firmer. Maine grinders advanced quotations slightly to 7c. per pound, carlots, f.o.b. Maine, following sales at 6.85c. Interest in foreign starch was quiet. Shipments of Danish were unchanged at 7¾c. per pound, carlots, exdock, duty paid. Stocks on spot were in light demand and quotations ranged from 8¾c. to 9½c. per pound, exwarehouse, as to quality and quantity.

Sago Flour—Spot stocks were in fair request for immediate needs. Raw was quoted at 7¾c. to 8c. per pound, and refined, 9c. to 9½c. per pound, exwarehouse, depending upon quantity.

Tapioca Flour—Trading was restricted to actual needs. Market was steady. Java grades were well held for spot and later delivery. Java AAA was quoted at 9¼c. per pound, carlots, exdock, and at 9½c. to 10c. per pound, exwarehouse, for lesser quantities. AA ranged from 9¼c. to 9¾c. per pound, same basis.

Tanning Materials

Chestnut Extract—Tanners were steady buyers for immediate requirements. Prices were well held at former levels. Extract 25 percent tannin was quoted at 4½c. per pound, tankcars, f.o.b. works and 5.1c. per pound, barrels, carlots, same basis.

Cutch—This market was unchanged and steady. Shipments were maintained at 8¼c. per pound, exdock, plus duty.

Mangrove Bark—Buying interest continued spotty. Shipments were steady at prevailing quotations. Columbian bark was held at $60 per ton, exdock; Ecuadorian at $57.50 per ton, and African at $79 to $80 per ton, same basis.

Myrobalans — Business was reported slow. Shipments were held at former levels. JI's were quoted at $45 per ton, exdock; assorted at $48 per ton, and crushed, $65 to $66 per ton, same basis. Indian extract was steady at 7¼c. per pound, exdock, plus duty.

Quebracho Extract — This market continued firm, despite light consuming inquiry. Prompt shipments were unchanged and steady. Solid ordinary was quoted 11 31/64c. per pound, carlots, exdock, and clarified 12 3/16c. same basis, plus duty.

Valonia—Buying interest lacked snap. Primary market remained steady and unchanged. Extract was quoted at 10c. per pound exdock, plus duty. Beards were unchanged at $85 per ton and cups, $64, exdock.

Wattle — Producers have reduced the tannin content of extract offered for shipment and quoted East African and South African at a minimum of 60 percent tannin content, instead of 61 and 62 percent as heretofore. Prices have been adjusted accordingly. Shipments of South African extract, 60 percent, was quoted at 10.45c. per pound, exdock, plus duty, and East African, 60 percent, at 10.30c. per pound, same basis. Fair average bark was unchanged at $104 per ton, exdock and merchantable at $100 per ton, same basis.

For Late Market Developments, See Page 4

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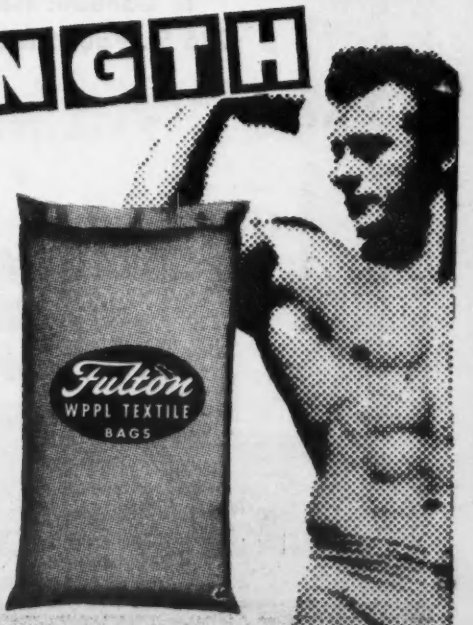

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Drugs and Fine Chemicals

The price of pentaerythritol was advanced 1 cent per pound last week. Although the advance had gone into effect for most producers some weeks ago, one producer's increase did not become effective until May 1. NF grade, 85 percent, phosphoric acid was advanced ½ cent per pound. Refined and deodorized and USP grades of castor oil were reduced 1c. per pound. Blackstrap molasses, feed grade, was reduced ½ cent per gal-

Adipic and hydroxyacetic acids were advanced, effective May 1. The former was upped 7 cents per pound while the latter acid was advanced 1 cent per pound in tankcars. Hydroxyacetic acid prices were on a 100 percent basis, the technical acid having a concentration of 70 percent.

Demand for pentaerythritol was reportedly quite good. Increasing quantities were said to be finding their way into protective coatings manufacture. The advance in pentaerythritol prices was the first change in more than a year and constituted an effort on the part of producers to increase profit margins which had shrunk under the impact of higher production costs. The reduction in castor oil indicates an easier position in the castor bean market. Castor oil controls have been lifted and the domestic castor bean production was said to have shown an increase over prior yields.

The promulgation of a government order on a group of items, menthol included, to the effect that import licenses must be procured by dealers before they can bring in future shipments, has had a slight effect on the menthol market. Prices have shown some firmness but did not take any definite upward turn. Also included in the government regulations was a list of commodities, of which agar was one a which cannot be imported without a permit, if transported via Hong Kong, Macao or other unauthorized ports, since such commodities are presumed to be of Red China origin. Demand for agar was variously reported as being fair to active. Prices were holding well, although some loss of consumer interest was noted resulting from the possibility of a peace settlement in the Far East.

Glycerin producers report that demand has been running at strong levels. On the whole, not too much credit for the heavy demand was ascribed to government procurement. Consumption of glycerin in civilian channels has accounted for most glycerin currently bought, it was said.

According to reports received from the Department of Commerce, glycerin stocks at the end of March showed a substantial gain over those on hand at the end of the preceding month. Domestic production of crude was higher to even a greater extent than stocks.

Adipic Acid—The price of adipic acid was advanced 7c. per pound, effective May 1. The current schedule was as follows:—In lots of 15 tons or more, 37 cents. Lots of less than 15 tons were priced ½c. per pound higher.

Agar—Reports on the conditions of the agar market varied on the point of the extent of consumer demand. The strength of demand was variously reported as fair to active, depending upon the expressed viewpoint of the dealers queried. Supplies were reported to be adequate for current inquiry.

Some slackening in interest was noted, this fact being laid to the recurrent rumors of a peaceful settlement in Korea. Prices were generally firm with Kobe No. 1 strip quoted anywhere from $2 to $2.25 per pound. The powdered, 30 mesh, material was quoted from $2.50 to $2.65 per pound. Some lower quotations for the No. 1 strip were heard but as to the quality of such material, some doubt was expressed.

Included among a list of items drawn up by the Foreign Assets Control Administration was agar agar. Items in the group if transported from or through Hong Kong, Macao or other ports not in authorized trade territory are presumed to be of Red China origin and cannot be imported without a permit.

Alcohol—Demand for ethyl alcohol continued at strong levels. Production has easily kept pace with consumption of alcohol despite the sizable increase this year. Most producers state that, aside from the alcohol sold to the Reconstruction Finance Corporation, the major portion of alcohol sold is being used in strictly civilian channels.

This year's Cuban blackstrap crop has virtually all been sold with the Cubans doing much better, pricewise, than they did last year when demand from fermentation alcohol producers was weak and the blackstrap crop had been excessively large.

Excessive alcohol stocks have been reported abroad. If the RFC should not continue alcohol buying, some trade sources feel that an oversupply might again develop particularly if foreign alcohol competes in the domestic market.

The current large surplus of alcohol in France is the result of wartime expansion of sugar beet cultivation and construction of distilleries in a period when it was impossible to import adequate supplies of petroleum. The postwar plan under which the government guaranteed to buy alcohol made from surplus beets expired in 1951, but its provisions were unofficially recognized as policy in 1952. The operation of the plan resulted in the production of large quantities of surplus alcohol. Some of the pressure was relieved when the United States purchased substantial amounts in 1950 because of the Korean situation. However, after these deliveries were concluded, alcohol stocks again mounted almost to a record high.

The situation has received considerable attention and the Ministry of Agriculture has been given the responsibility of preparing decrees to provide for the purchase of a certain number of those distilleries which have been requested to cease operations, the conversion of sugar-factory distilleries to production of the largest possible quantities of sugar, and progressive reduction of sugar beet planting. The Ministries of Economic Affairs, Finance, Industry, and Agriculture are reported to have agreed upon this general policy.

Among projects proposed by beet and alcohol interests to create new domestic outlets for alcohol is the establishment of a synthetic-rubber industry. However, this proposal has received little support from Government and industry experts. The production of synthetic rubber from refinery gases is generally considered to have more favorable prospects.

Capryl Alcohol—Demand for this material was fair, on the whole. Supplies were ample for current inquiry and prices were unchanged.

Castor Oil—Prices on the refined and deodorized and USP grades of castor oil were reduced 1c. per pound last week. Currently, the USP grade was quoted at 24c. per pound in tankcars, 25c. in drum carlots, and 25½c. in less than carlots. Refined and deodorized castor oil was quoted at 25½c. per pound in tankcars, with the usual differentials prevailing on drum carlots and less carlots. Arrivals of beans at Philadelphia and New York ports last week amounted to 2,342,850 pounds, as compared with 1,282,650 the previous week, and 1,952,100 during the corresponding week of last year. Imports of castor oil at these ports last week totaled 1,480,000 pounds, as against the 3,471,200 pounds brought in during the previous week, and the 668,400 pounds landed during the corresponding week of 1952.

Total imports of beans so far this year at Philadelphia and New York amounted to 49,924,650 pounds, compared with 54,714,150 pounds during the corresponding period in 1952. Total oil imports at these ports so far this year amounted to 36,648,700 pounds, as against the 30,970,000 pounds brought in during the same period last year.

Cocoa Butter—Demand for cocoa butter was reported to be poor. The Easter season usually marks the apex for sales of chocolate confections which thereafter falls off with the approach of warmer weather. Since its use in the manufacture of confectionary is having its seasonal lapse, demand for cocoa butter has

For Late Market Developments, See Page 4

Price Trends

Advanced

Acid, adipic, 7c. per lb.
Hydroxyacetic, tech., 1c. per lb.
Phosphoric, NF, 85%, ½c. per lb.
Pentaerythritol, tech., 1c. per lb.

Reduced

Castor oil, refined and deodorized, 1c. per lb.
USP, 1c. per lb.
Molasses, blackstrap, feed grade, New Orleans, ½c. per gal.

Comparative Price Indexes

(100=1949 average)

Last week	Prev. week	Last month	May 2, 1952
90.23	90.23	90.36	97.91

(*For Current Prices see page 9*)

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declined proportionately. The current price was 70c. per pound.

Surprisingly, however, the price of cocoa beans has maintained a high level. World sale of cacao has been good and the market has shown considerable strength. The threatened blight of cacao trees on the Gold Coast has been largely eliminated through the judicious destruction of diseased trees, thus preventing a possible epidemic among the cacoa groves. The outlook for Mexico's 1953 cacao crop is good; about 8,600 metric tons is anticipated, according to reports.

Mexico's 1952 cacao crop was estimated by trade and semiofficial sources at 8,500 tons, or about the same as during the 2 preceding years and about four times the production of 10 years ago.

Exports of raw cacao from Mexico in 1952 totaled 1,866 tons, about 20 percent above 1951 exports. Practically all of Mexico's cacao exports go to the United States.

Exports of chocolate and cacao preparations accounted for only about 2 tons in 1952, about the same as in 1951.

Significantly, Mexico imported 127 tons of raw cacao in 1952. This represents the only importation of raw cacao into Mexico since 1949, when 35 tons were imported. Trade sources stated that these 1952 imports were made directly by the chocolate industry owing to lower prices in the U.S. market and the fear that the Tabasco floods might curtail their supplies in 1952.

Gallic Acid—Demand for gallic acid was said to be steady. Supplies were ample for current inquiry and prices unchanged.

Glycerin—Demand for glycerin remained strong. Supplies were about in balance as production keeps apace with consumption. Although military needs account for some glycerin, most producers report that current high level of production in consumer items was responsible for the strong demand.

Prices remained unchanged. Any predictions as to the future glycerin price pattern remain a matter for conjecture since a lot depends upon the amount of imported crude which will continue to be available and the continued high rate of consumption. Some observers feel that the outstandingly high rate of crude imports during the past quarter would not continue. It was estimated that heavy imports had been possible mainly as a result of large stockpiles which had been accumulated abroad. There have been conflicting claims as to what amount of crude production various foreign sources are capable. At the present time, imports of crude have been sold up into June, according to trade reports.

With the approach of the vacation shutdown of soap plans this Summer, half a month's glycerin production will be lost.

This factor in addition to the probable slow up in imports is expected to keep glycerin in a firm market position in coming months. Whether consumption will keep at its current rate, of course, cannot be predicted with certainty. Glycerin stocks in consumers' hands, however, were estimated to be large and this factor has always been prominent in such calculations.

Department of Commerce statistics on glycerin production for March were issued last week. A substantial rise in glycerin stocks was noted with the total at the end of March aggregating 48,000,000 pounds compared to the 42,600,000 pounds at the end of February.

Stocks of all grades were up. Crude stocks amounted to 13,015,000 pounds, an increase of 6 percent over February. High gravity and yellow distilled stocks were up 17 percent from the preceding month, aggregating 14,856,000 pounds while stocks of chemically pure glycerin rose 14.2 percent, totaling 20,146,000 pounds.

The rise in glycerin stocks was a corollary to the sizable stepup in production during the month of March. Domestic production of crude (including synthetic) increased 18 percent over February to a level of 20,985,000 pounds. This was well over the level of crude production in March, 1952. Taken together with January-February production, it represented a reversal of the recent trends to lowered glycerin production.

Production of high gravity and yellow distilled grades totaled 7,893,000 pounds, an increase of 16.7 percent over the preceding month. Chemically pure production was up 10 percent over February, totaling 14,582,000 pounds.

Hydroxyacetic Acid—The price of this acid was upped 1c. per pound in tankcars and 1.6c. per pound in barrels as of May 1. Currently the technical, 70 percent grade was quoted at 9½c. per pound in tanks, on a 100 percent basis. Non-returnable drums were pegged at 13.6c. per pound, also on a 100 percent basis.

Menthol—Demand for menthol continued weak. Prices firmed very slightly as a result of the government regulation recently promulgated making it necessary for dealers to procure permits before at-

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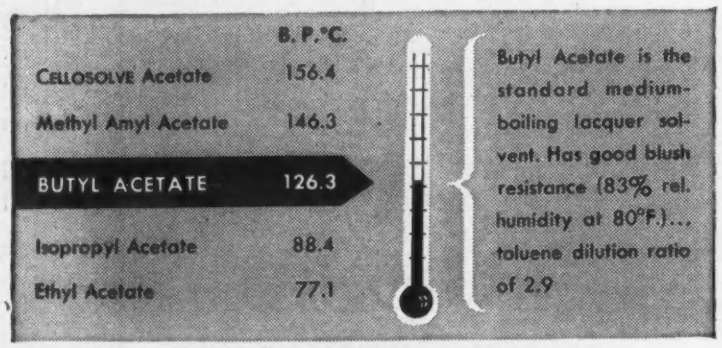
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tempting to bring in menthol from abroad. At best, it was stated, the restrictive order might cause some delay in menthol importations, until licenses can be obtained.

Prices on Brazilian menthol continued to range from $6.10 to $6.25 per pound, duty paid, on spot. Japanese menthol prices were unchanged from the preceding week.

Methanol — Demand for synthetic methanol was said to be very good, on the whole. Some producers, however, were not selling methanol as fast as others. Despite the fact that not much methanol is being bought at the present time for antifreeze use, other sources were consuming large quantities of the alcohol.

Supplies were reportedly tight with at least two producers. There were some slight delays in delivery and large orders for methanol have to be reviewed, some producers state. A substantial quantity of methanol consumption is going into the production of formaldehyde, for which the demand is strong.

Natural methanol was moving at a fair rate. Demand could be stronger according to producers. Supplies were adequate and prices unchanged.

Production figures on synthetic and natural methanol have been released by the Tariff Commission. In February, production of synthetic methanol totaled 78,952,685 pounds compared to the 93,136,722 pounds turned out in January. Production of natural methanol in January totaled 1,592,000 pounds.

Purchases by the USDA as of the same week totaled 10,942,767 pounds of spray dried powder and 1,878,110 pounds of the roller material.

At a recent trade meeting it was emphasized that the current surplus situation in dairy products could be resolved by a small change in the overall supply and demand picture.

Molasses—Feed molasses price continued steady at all points except New Orleans and Houston during the week ended April 28, according to reports from the USDA. At New Orleans the price fell off ½c per gallon and was currently 11 (mostly) cents. At Houston, the price was also down ½c per gallon and was quoted at 12 cents. The New York price was unchanged, remaining at 12½ cents.

Demand was moderate to slow at New Orleans, and Houston. Other terminals such as Clewiston, Norfolk and Baltimore reported demand to be moderate while further up the east coast, it went to moderate to good.

Demand for citrus molasses ranged from moderate to strong depending upon the terminal in question. Supplies were limited at the majority of terminals reporting although adequate at Lake Wales, Ocala, Frostproof and Winter Garden. Prices were unchanged. It has been reported that Cuba is prepared to produce high-test molasses from surplus sugarcane provided that bona fide purchasers can be found who will guarantee to use such molasses during 1953 or early 1954. Negotiations are under way with possible buyers but no reports have been made of completed sales.

Pentaerythritol—A price advance of 1c. per pound took effect in this market last week as the last PE producer went along with an earlier price advance by other producers. Demand for PE continued strong with supplies adequate but not excessive.

Production of pentaerythritol during February totaled 4,466,610 pounds as compared with that in January which aggregated 4,912,363 pounds, according to the Tariff Commission.

Phosphoric Acid—The price of NF, 85 percent phosphoric acid was advanced ½c. per pound last week. Currently the carlot price in carboys was 8½c. per pound. Less than carlot prices ranged from 9 to 9½c.

Sebacic Acid—Demand for this material was reportedly steady but not spectacular. Supplies were adequate for current inquiry and expected to continue so. The current price in carlots was 80c. per pound. Less than carlots was quoted 2c. per pound higher.

It was learned last week that one producer of sebacic acid had withdrawn from the market, effective May 1, 1953.

Tannic Acid—Demand for tannic acid was reportedly fair. Supplies were adequate for current inquiry and expected to remain so.

The NF fluffy grade, in 1,000 pound lots, was currently quoted from $1.59 to $1.60 per pound. The powder was pegged at $1.50 per pound, on the same basis.

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US Plan to Allow Private Firms in Atomic Field Hit

The administration's announced plan of permitting private industry to enter the atomic energy field was protested last week by the CIO in a letter from O. A. Knight, president of the CIO's Oil Workers International Union to Gordon Dean, chairman of the Atomic Energy Commission.

Mr. Knight said that the "announced program of turning atomic energy development over to the big monopolistic corporations" may mean "frustration and limitation of peacetime development." He added that such development under private auspices would require "immense government subsidies, direct or indirect." His letter continued:—

"There is also a very serious problem of the pollution of atmosphere, soil, and streams; the record of most of our big companies in the matter of pollution is abysmal; when we get to radioactive residues, injurious substances may be spread abroad or stored in such manner as to threaten human life for generations in the future, perhaps centuries. These problems cannot be entrusted to the big companies; the responsibility belongs to the government.

"We are protesting now against any weakening of government ownership, operation and control in the atomic energy field. We call for a planned and orderly development of atomic energy for peacetime purposes as well as for defense. We think the laws should be strengthened to require that both ownership and management of such enterprises be lodged with the government of the United States."

Peanut Price Support Of $237.60 Announced

The Department of Agriculture has announced that price support will be available to producers of 1953-crop farmers stock peanuts, as required by law, at a national average level of not less than $237.60 per ton. This average minimum support price, which is 90 percent of the March 15, 1953, parity of $264 per ton, will be adjusted upward if 90 percent of parity at the beginning of the marketing season (August 1) is higher than the level just announced. The average support level for 1952 crop peanuts is $239.40 per ton.

Provisions of the 1953-peanut price support program and support prices by types of peanuts and producing areas will be announced at a later date.

Heyden Chemical Elects Wells and Walter to Board

Heyden Chemical Corporation, New York, at its annual meeting May 1 elected George M. Wells and Henry G. Walter, jr., members of the board of directors. Mr. Wells, a consulting engineer, is a director and member of the executive committee of Congoleum-Nairn, Inc., and Virginia-Carolina Chemical Corporation and a director of Daystrom, Inc. Mr. Walter is a senior partner in the law firm of Fulton, Walter & Halley and a director of St. Maurice Chemicals, Ltd., Montreal.

Armour Advances Gausebeck

Herbert B. Gausebeck has been promoted to associate manager of the chemistry and chemical engineering department at Armour Research Foundation of Illinois Institute of Technology, Chicago.

Mr. Gausebeck has served as assistant department chairman since 1949. In that capacity, he was in charge of three sections—plastics, analytical, and literature. As associate manager, he also will be responsible for departmental development work. Mr. Gausebeck joined the foundation in 1948 as supervisor of its plastics section, after holding several research posts in industry. While with Heyden Chemical Corporation in Garfield, N. J., he was supervisor of plasticizer research. Before that, he was senior chemist at Ridbo laboratories, Paterson, N. J., and at one time was a chemist with Electrochemical Products Company, Nutley, N. J.

Glass Container Shipments: March

Total shipments of narrow-neck glass containers in gross during March were 7,568,402, compared with 5,234,949 in February, according to the Bureau of Census. In this category, the amount used for medicinal and health supplies was 1,584,705 in March, compared with 1,195,873 in February; chemicals, 905,650 in March, compared with 674,824 in February, and toiletries, 730,095 in March, compared with 541,736 in February.

Total shipments of wide-mouth glass containers in gross during March were 4,513,093, compared with 3,275,493 in February. In this category, the amount used for medicinal and health supplies was 515,533 in March, compared with 397,655 in February; chemicals, 194,958 in March, compared with 129,068 in February, and toiletries, 190,236 in March, compared with 134,434 in February.

McCormick & Co. Elects Crampton Board Member

Robert C. Crampton, vice-president and general sales manager of the A. Schilling & Co. Division of McCormick & Co., Baltimore, Md., has been elected to the parent organization's board of directors.

Mr. Crampton joined the Schilling organization in 1935 as a territory salesman, and two years later was transferred to San Francisco as head salesman. Later he was assigned to Portland, Ore., as division manager, a position he occupied until 1938, when he became division manager for the San Francisco area. When the Schilling Company was purchased by McCormick in 1947, Mr. Crampton was named a vice-president and general manager of the sales divisions and elected to the Schilling Division board.

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Doctors' Draft Law Changes Suggested by Drug Industry

Drug Manufacturers last week urged the house armed services committee to amend the doctors' draft law to permit deferment of physicians engaged in research work in private industry. The bill, H.R. 4495, which also allows deferment of members of faculties of medical, dental and veterinary schools and schools of public health, was taken under advisement by the committee and a favorable report is expected.

Raymond Rice, of Eli Lilly & Co., Indianapolis, Ind., chairman of the committee on medical manpower of the American Drug Manufacturers Association, explained that under existing law there is a general provision stating that the essentiality of persons engaged in health work should be recognized by the local draft boards, but in the doctors' draft law this was restricted to the essentiality of the doctor in the community.

Mr. Rice pointed out that the essential nature of the work of the research physician frequently is not apparent in the community in which he resides since it applies to the nation as a whole and not to a single localized area. Therefore, it is hoped that they can be considered in the light of their true national essentiality by the local board rather than to be judged on the basis of their comparative value among local communities.

The witness also urged that the committee include a statement in its report on the bill recognizing the importance of medical research so that this will serve as an expression of congressional policy to the local draft boards in selecting doctors for the armed services.

Lindane Being Offered Commercially by Wyandotte

Lindane is now available from Wyandotte Chemicals Corporation, Wyandotte, Mich., in commercial quantities, the agricultural chemicals department has announced. The materials is available from warehouses serving both domestic and export markets, Wyandotte said.

Trade Briefs

Anahist Company, Yonkers, N. Y., has introduced "Liquid Anahist."

Schieffelin & Co. is distributing "Cyclogyl" ophthalmic preparation nationally.

George A. Breon & Co. reports improving its analgesic, "Anodynos."

Charles Wesley Dunn has been elected a director of the United States Committee of the World Medical Association.

Organizes New Company

Arthur W. Dixon, jr., recently executive vice-president of Cornwell Chemicals, Inc., Paterson, N. J., has formed Dixon Chemicals, Inc., with offices at 1051 Bloomfield avenue, Clifton, N. J. Mr. Dixon is a former executive of E. I. duPont de Nemours & Co. and has been connected with the sales department of General Chemical Division, Allied Chemical & Dye Corporation. The new Clifton concern will distribute and manufacture industrial and fine chemicals.

CSC Elects Director

Commercial Solvents Corporation, New York, has announced the election of Jeremiah Milbank, jr., to its board of directors. Mr. Milbank is also a director of Greenwich (Conn.) Trust Company and Northern Insurance Company of New York.

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USP Stand on WHO Names Follows ADMA-APMA Tack

The board of trustees of the United States Pharmacopeia has presented a resolution to the Department of State regarding the activities of the World Health Organization in selecting international non-propietary names for drugs, it was announced last week. The USP resolution is very similar to statements previously prepared by the American Drug Manufacturers Association and the American Pharmaceutical Manufacturers Association. Text of the USP resolution is as follows:—

"Resolved that the Department of State be requested to instruct the US delegation to the sixth World Health Assembly to introduce a resolution calling upon the WHO to make a comprehensive study of the status, functions, and objectives of the program on international non-proprietary names:—

"1. To determine if a need exists for, and, if so, the effect of such a program; 2, pending the conclusion of this study, to declare that the present unsound mechanism for selecting common, non-proprietary names be discontinued and the WHO announce all previous actions to the subcommittee on international non-proprietary names to be of no force and effect except as guides to international identification of drugs, and 3, the program of international non-proprietary names be held in abeyance until satisfactory operating procedures are agreed upon."

Cyanamid Labs P.A. Named

American Cyanamid Company, New York, has announced the appointment of John W. Usher as purchasing agent for its Stamford Research Laboratories, Stamford, Conn. Mr. Usher has served as assistant division purchasing agent responsible for purchases of mechanical and technical equipment in the general purchasing department in New York, and was most recently in charge of purchasing liaison work for the company's plant now under construction at New Orleans, La. He has been a member of Cyanamid since 1947.

Mite Killer for Ornamental Plants, Crops Announced

The insecticide division of Geigy Company, New York, has announced a new mite killer for use on ornamental plants and agricultural crops. The product, chlorobenzilate, was known as "338" during the final two years of field testing.

The material is available as a 25 percent emulsion concentrate, a 25 percent wettable powder, a 3 percent dust and in the technical form. It is said to be compatible with most insecticides and fungicides and to have a relatively low level of toxicity to animals.

The high degree of effectiveness of chlorobenzilate was established under a variety of conditions in the United States, Canada and Europe against a great number of species of mites and red spiders on a wide range of crops and ornamentals. These plants included apples, peaches, avocados, grapes, almonds, walnuts, berries, beans, celery and cantaloupes as well as roses, azaleas and nursery stock, according to Geigy.

Nat'l Distillers Products Elects Stout a Director

A. Varick Stout, jr., senior partner of the investment firm of Dominick & Dominick, New York, has been elected a director of National Distillers Products Corporation, New York. Mr. Stout is a vice-president and director of National Shares Corporation, New York, and a director of the Dominick Corporation of Canada.

Haematology Atlas Now Offered In English, Sandoz Announces

The Sandoz "Atlas of Haematology," which has been published in French and German, is now available in English. The atlas represents the work of Dr. E. Undritz, of Sandoz Pharmacological Research Laboratories, New York, under the direction of Prof. E. Rothlin. Although Sandoz produces no products for the treatment of haematological conditions, it has supported the necessary research and the publication of the atlas. The edition is limited to 15,000 copies. Sandoz is supplying it to the physician at cost of production, $7 each.

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1. Miller, C. O., Siehrs, A. E., and Brazda, F. G., GLUCURONIC ACID AS A GROWTH FACTOR IN GUINEA PIGS. Proc. Soc. Expt. Biol. & Med., 30. 636-38, 1932-33.
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Polish Chemical Expansion Reportedly Exceeding Goals

The Polish chemical industry, at the midway point in a six-year expansion program, is exceeding its goals, according to the Polish chemical magazine *Przemysl Chemiczny* (Chemical Industry). As a result of progress during the first three years, the magazine stated, 1953 production goals of the Polish chemical industry are now higher than those originally set for 1954. With 1949 figured at 100, the index of output last year came to 203.2, the magazine reported, adding that total production for 1950, 1951, and 1952 was 11 percent above plan.

Sharpest increases were said to have been attained by the pharmaceutical industry and in the production of paints and varnishes. Production of rubber, dyes, semi-finished articles along with new chemical plant construction were claimed to have more than doubled that of 1949. Fertilizer output was also cited as having risen sharply.

Przemysl Chemiczny noted that penicillin production began in Poland in 1950 and that the output index in 1952 was 705. As compared with 1949 (100), the production index of medicinals as a whole was stated to have reached 518.7 by the end of 1952. Among other accomplishments, according to the magazine, were the nearly tenfold rise in the production of synthetic years of the steelon type during the past three years and the 141 percent increase in the production of synthetic tannin.

Joshel Wins Position At AEC-Dow Facility

Appointment of Dr. Lloyd M. Joshel as budget director and technical expert at the Rocky Flats plant, operated by Dow Chemical Company, Midland, Mich., for the Atomic Energy Commission near Denver, Colo., has been announced by F. H. Langell, plant manager.

Dr. Joshel assumed his new positions following service with Julius Hyman & Company, Denver, as treasurer and director. During the war years he was a senior industrial specialist for the Chemicals Bureau of the War Production Board and previously served as a Research Chemist for the Department of Agriculture in Washington, D. C., and Beltsville, Maryland.

Squibb Adds to Council

Appointment of two retail pharmacists —R. L. Brusenhan, San Antonio, Tex., and Wilfred Chagnon, Newton, Mass.—to the Squibb advisory council for four-year terms has been announced by W. L. Arscott, vice-president and sales manager of E. R. Squibb & Sons, New York. Mr. Chagnon and Mr. Brusenhan will join the advisory council when it holds its annual meetng with Squibb management on April 29, 30 and May 1 in New York.

Stock Control Study Offered

Release of the sixth annual study of stock control of prescription containers has been announced by the prescription container department of Armstrong Cork Company, Lancaster, Pa.

One of the study's prime objectives is to guide wholesalers in their own order patterns. The study covers such subjects as capital investment economics, effective utilization of warehouse space, maintenance of stock, profits based on turnover, usage habits, and maximum service and profit for the wholesaler. Armstrong's prescription container distributors may obtain copies of the study from Armstrong sales representatives.

Baker Castor Oil Cultivation Position Goes to Van Horn

Baker Castor Oil Company, New York, has announced the appointment of Dr. D. L. Van Horn to direct the company's program of castor bean breeding and seed production. Dr. Van Horn will have headquarters at Plainview, Tex., with the program designed to serve all areas of castor bean production.

Dr. Van Horn was on the staff of the University of Hawaii from 1943 to 1947. In the latter year he returned to the United States to take charge of the Department of Agriculture's agranomic research on castor beans, with emphasis on breeding.

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Sharples Chemicals Adds Brown, Phillips to Sales

Sharples Chemicals, Inc., Philadelphia, has announced the addition of two men to its sales force. Harold L. Brown, formerly a supervisor of technical service with the Plaskon Division of Libbey-Owens-Ford Glass Company at Toledo, Ohio, has been assigned to the New York regional office. He will cover Connecticut, Manhattan Island, and portions of New York, Pennsylvania and New Jersey.

Norman P. Phillips, who comes to Sharples from the National Aluminate Company, has been assigned to the midwestern regional office and will service Sharples customers in Ohio, Kentucky and Tennessee from Cleveland, Ohio.

Schering Award Winners Named

The three winners of the 1952 seventh annual Schering Corporation award competition among medical students have been announced by Dr. M. William Amster, chairman of the award committee. One award of $500 has been presented to Edward A. Jones, a sophomore at Meharry Medical College, Nashville, Tenn., for the outstanding paper on "Steroid Hormones in Geriatrics." The $500 award for the outstanding paper on "The Topical Uses of Antihistamines" was given to Seymour Cohen, senior medical student at the State University of New York at Syracuse. Another $500 award went to William H. Spencer, junior at the School of Medicine, University of California Medical Center, San Francisco, for his paper on "Chemotherapy of the Eye."

ACS Baltimore Unit Picks Tatum as Remsen Lecturer

Dr. E. L. Tatum, of Stanford University, has been selected to present the 1953 Remsen memorial lecture of the American Chemical Society's Maryland section at Johns Hopkins University, Baltimore, Md., May 15.

Dr. Tatum is the eighth American scientist to deliver the Remsen lecture, which was established in 1946 in memory of Dr. Ira Remsen. Dr. Remsen was the first professor of chemistry at Johns Hopkins and second president of the university. He was president of the American Chemical Society in 1902.

The 1953 lecture will be presented in Remsen Hall following a dinner in the Johns Hopkins Club. Dr. Tatum, who will speak on "Contributions of Biochemical Genetics and Microorganisms to Biochemistry," will be introduced by Prof. William D. McElroy, of the Johns Hopkins Medical School. Dr. Winslow H. Hartford, of the Baltimore plant of the Mutual Chemical Company of America, chairman of the section, will preside.

Schwarz Labs Adds 19 Amino Acids to Its Line

Schwarz Laboratories, Inc., Mount Vernon, N. Y., has added nineteen more products to its list of optically standardized amino acids. The products are:—Laevo arginine HC1; laevo asparagine; laevo aspartic acid; laevo cysteine HC1 H_2O, laevo cystine; laevo and dextro glumatic acid; laevo histidine HC1; laevo leucine (methionine free); laevo lysine HC1; laevo and dextro methionine; laevo and dextro phenylalanine; laevo proline; laevo and dextro serine; laevo tryptophan, and laevo tyrosine.

Schmid Promotes Pringle

Julius Schmid, Inc., New York, has announced the appointment of John A. Pringle as director of research. Mr. Pringle has been associated with the company for more than ten years as director of the gynecological division. Before joining Schmid, Mr. Pringle was sales manager and director of professional services of the Maltine Company, now the Chilcott Laboratories Division of Warner-Hudnut, Inc.

Trade Briefs

The Atomic Energy Commission has announced that the injury rate in the nation's atomic energy program decreased by one-third in 1952.

National Distillers Products Corporation has completed negotiations for the sale of its Italian Swiss Colony wine subsidiary to Louis A. Petri.

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Southeastern Biologists Ass'n Elects Dr. Reynolds as Pres.

The Association of Southeastern Biologists has elected Dr. Bruce D. Reynolds, Miller School of Biology, University of Virginia, president of the organization. President-elect of the association is Dr. H. E. Totten, department of botany, University of North Carolina.

Dr. Alvin Beatty, Emory University, has been named vice-president, while Dr. J. Paul Reynolds, Florida State University, has been made treasurer. Dr. Mary E. Gaulden, Oak Ridge National Laboratory, continues as secretary of the association. Retiring president and vice-president of the organization for 1953 are Dr. Margaret Hess and Dr. C. S. Shoup, Atomic Energy Commission.

New additions to the executive committee of the association are Dr. H. H. Hobbs of the University of Virginia, Dr. Gordon Walcott of the Public Health Service, and Dr. John Fincher of Howard College.

Kidde Labs Names Webb Senior Process Engineer

Walter Kidde Nuclear Laboratories, Inc., Garden City, L. I., has named G. B. Webb senior process engineer. Mr. Webb worked on basic design and engineering problems in connection with the gaseous diffusion plant in Oak Ridge, Tenn., as a chemical engineer for the Kellex Corporation. He continued in isotope separate work with Hydrocarbon Research, Inc., on the design of a deuterium separation unit. During the last two years Mr. Webb was a senior process engineer for Foster Wheeler Corporation. Prior to his atomic energy work, Mr. Webb was a research engineer for seven years in the petroleum field on pilot plant work and theoretical studies.

Isotopes Revised Catalog Published By Oak Ridge National Laboratory

A new catalog of isotopes, both radioactive and stable, produced by Oak Ridge National Laboratory, Oak Ridge, Tenn., is now available, according to an announcement by the laboratory. The catalog replaces a previous edition published by the Atomic Energy Commission in March, 1951. More than 100 radioactive and 175 stable isotopes are listed in the new catalog, together with prices and descriptive material. Prices range from as low as $5 per curie for radioactive cobalt (in large quantities) to $5 a microcurie for radioactive chlorine.

The catalog—at $1 per copy—or information about ORNL-produced radioisotopes, may be obtained by writing to Carbide & Carbon Chemicals Company, Oak Ridge National Laboratory, radioisotope sales department, Post Office Box P, Oak Ridge, Tenn. Correspondence regarding stable isotopes should be directed to Carbide & Carbon Chemicals Company, Oak Ridge National Laboratory, stable isotope research and production division, Post Office Box P, Oak Ridge, Tenn.

De Laire, Inc., New Firm, Sets Up New York Office

De Laire, Inc., a newly established corporation, has opened its New York office at 114 East 32nd street. De Laire replaces the former De Laire Division of Dodge & Olcott, Inc., New York, which association was terminated with the formation of the new corporation.

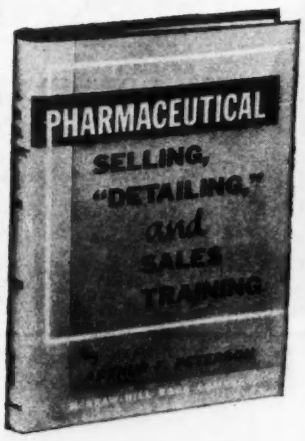
Lakeside Names Executives

Lakeside Laboratories, Milwaukee, Wisc., has announced the appointment of Dr. Harvey L. Daiell as vice-president and technical assistant to the president. Others recently appointed include:—Treasurer and assistant secretary, Gerald H. Goelzer; vice-president and plant superintendent, Darwin Kaestner, and assistant vice-president and purchasing and production control manager, William H. Mohaupt.

Geigy Pharmaceuticals Appoints 12 to Professional Service Staff

Appointment of twelve new representatives to the professional service staff has been announced by Geigy Pharmaceuticals, a division of Geigy Company, New York. The new representatives, all registered pharmacists, have completed a specialized course of training in scientific and sales fields under the direction of Arthur F. Peterson.

How to sell and detail more effectively



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House Committee Concludes Flammable Clothing Hearings

The house interstate commerce committee last week concluded four days of hearings on bills outlawing highly flammable wearing apparel and then took the matter under advisement for report to the house at a later date.

The committee has five bills under consideration, all more or less similar in terms, which prohibit the manufacture and sale of clothing made of fabrics so highly flammable as to be dangerous when worn. The legislation is the outgrowth of several recent tragic experiences of children and adults being severely burned when wearing articles of brushed rayon and similar synthetics.

Several score witnesses were heard by the committee, chiefly from the textile trades. Most of them agreed that something should be done to curb the sale of such articles, but there was a wide disagreement on the definition of highly flammable fabrics. The committee is expected to seek the aid of the National Bureau of Standards in settling the issue.

PHS Drug List

—*Continued from page 3*

Medical Services, and by Dr. James R. Shaw, medical director and chief of the division of hospitals, it was explained that the purpose of the listing is "to insure that medical and dental officers moving from one station to another will find at least the familiar solid core of basic drugs at their new stations" and also "to encourage therapeutic simplicity."

It was also explained that while PHS maintains a reasonable control over the inventories of the pharmacies, it does not deny any medical or dental officer the opportunity of convincing his fellow clinicians that a "non-basic" drug is essential to the welfare of his patients. Stocks of "non-basic" drugs may be maintained if the station's pharmacy committee has given its written approval. This is not required in the procurement of a "non-basic" drug for an individual patient in an emergency.

Purposes of Booklet

The introduction to the booklet provides a fuller explanation of its purposes. It states in part:—"Drug therapy is a broad and complex field. The multiplicity of available drugs and drug preparations, and the rapidity of developments in this field make it difficult for a physician and dentist to keep up to date and be discriminative. Such compendia as New and Non-Official Remedies, Useful Drugs, Reports of the Council on Pharmacy and Chemistry of the American Medical Association, and Accepted Dental remedies of the American Dental Association, serve to help the physician and dentist in improving and keeping current their drug armamentarium. The majority of practitioners, however, feel that further simplification would be desirable, especially with respect to those drugs which tend to duplicate one another's effects or which offer chemical or pharmacologic variations of questionable advantage.

"'Basic Drugs—US Public Health Service Hospitals and Clinics' has been developed in an effort to meet this need. This basic listing is not the end but the beginning, the point of departure in drug therapy. The development of this handbook has been a cooperative service effort which has had the following purposes and goals:—

Goals of Handbook Detailed

"1. To provide the patient with the best possible drug therapy.

"2. To provide the physician and dentist with carefully selected agents of proved effectiveness, which will be a basis for flexible drug therapy.

"3. To provide a standard of comparison for the evaluation of new therapeutic agents.

"4. To provide the physician, dentist, pharmacist and nurse with a ready reference on the essential pharmacology of the basic drugs.

"5. To provide for simplification of all drug therapy record keeping.

"In the selection of basic drugs, an attempt has been made to sort out the smallest number of the best, simplest and safest medicines currently needed in the ordinary prevention, diagnosis and treatment of illness. Only rarely was the task one of sorting the good from the bad or indifferent. Usually it involved trying to choose the best of several good medications. The criteria utilized in the selection of the drugs were:—

Criteria for Selections

"1. The primary consideration is the therapeutic efficacy of the drug. Within this criterion, preference is given to US Pharmacopia, the National Formulary, New and Non-Official Remedies, and Accepted Dental Remedies items.

"2. Unnecessary duplication is avoided.

"3. Drugs with secret compositions are not considered.

"4. Mixtures are included only when they provide substantial advantage over the individual components.

"Many vehicles, wetting and emulsifying agents, oils, coloring agents and similar items used in the practice of pharmacy are not included in this listing. Such routinely used agents are, of course, to be stocked in service pharmacies as needed."

The handbook explains that the basic drugs are referred to usually by their official English titles or generic nonrestricted names. In some instances, an official drug is obtainable only under the tradename and such drugs are referred to be the official name and the tradename follows in parenthesis.

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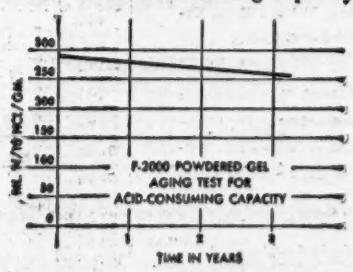

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ANILINE DYES—147 dms, Ciba Co, Rotterdam
58 dms, Rotterdam
5 cks, C A Haynes, Rotterdam
21 dms, C A Haynes, Rotterdam
3 dms, Hensel Bruckmann & Lorbacher, Rotterdam
7 dms, Geigy Co, Rotterdam
ANTHRACEN—11 bbls, Rotterdam
ANTIMONY OXIDE—300 bgs, C Tennant Sons & Co, Antofagasta
REGULUS—50 cs, C Gitlan, Antwerp
216 cs, Metal Transport Corp, Antwerp
401 cs, Barrett Transport, Split
ARABIC GUM—615 bgs, National City Bank, Port Sudan
294 bgs, Hanover Bank, Port Sudan
351 bgs, Brown Bros, Port Sudan
101 bgs, Chase National Bank, Port Sudan
365 bgs, Guaranty Trust Co, Port Sudan
154 bgs, Parke Davis Co, Port Sudan
254 bgs, Bankers Trust Co, Port Sudan
104 bgs, Port Sudan
ASBESTOS FIBER—864 bgs, Johns Manville Corp, Port Elizabeth
500 bgs, Bankers Trust Co, Lourenco Marques
500 bgs, Owens Illinois Glass Co, Lourenco Marques
110 bgs, Asbestos Corp of America, Durban
BARIUM—45 dms, Tuteur & Co, Rouen
BEESWAX—129 bgs, W R Grace & Co, Talcahuano
32 bgs, W R Grace & Co, San Antonio
23 bgs, Robinson Wagner Co, Port Au Prince
50 bgs, Porcella Vicini & Co, Puerto Plata
30 bgs, Havana
44 bgs, Talcahuano
BERGAMOT OIL—16 hf cs, Brown Bros, Messina
10 cs, Messina
12 cs, National City Bank, Messina
BLANC FIXE—800 bgs, C J Osborne & Co, Rotterdam
100 bgs, Interstate Chemical Corp, Rotterdam
BOTANICALS—59 bgs, Produce Brokers, Rijeka
8 bls, National City Bank, Antwerp
BUCHU LEAVES—25 bls, S B Penick & Co, Capetown
CADMIUM—40 cs, Chase National Bank, Yokohama
20 cs, Rosenthal Bercow, Yokohama
CALCIFEROL—5 cs, R J Saunders, Rotterdam
4 cs, Phillips Export Corp, Rotterdam
CALCIUM NITRATE—400 bgs, Harstan Chemical Corp, Skien
CANANGA OIL—2 dms, American Aromatics Inc, Tandjong Priok
1 dm, George Lueders & Co, Tandjong Priok
CAPSICUM OLEORESIN—4 cns, Lo Curto & Funk, Rotterdam
CARAWAY SEED—400 bgs, Spartan Trading Co, Rotterdam
100 bgs, H L Friedler, Rotterdam
100 bgs, Meer Corp, Rotterdam
100 bgs, Levy & Levis Co, Rotterdam
100 bgs, Wm M Allison, Rotterdam
250 bgs, Atlanta Trading Corp, Rotterdam
CARDAMONS—40 cs, Wm E Martin, Tuticorin
10 cs, Bharti Trading Co, Tuticorin
19 cs, Kellys America Ltd, Tuticorin
20 cs, C Czarinkow, Tuticorin
26 cs, George Lueders & Co, Tuticorin
6 cs, Wm E Martin, Mangalore
CASEIN—3,667 bgs, A J Mills & Co, Auckland
2,002 bgs, A J Mills & Co, Wellington
2,000 bgs, Rotterdam
2,000 bgs, Wm H Muller, Amsterdam
1,231 bgs, Nordisk Transport, Oslo
20 bgs, intern Experditers, Amsterdam
CASHEW NUT SHELL LIQUID—180 tons, Fidelity Union Trust Co, Cochin
38 dms, Mitchel Beck Co, Lourenco Marques
CASSIA—433 bls, A C Israel, Rotterdam
395 bls, C M Van Sillevoldt, Rotterdam
176 bls, J Berlage, Rotterdam
83 bls, Frank Tea & Spice Co, Rotterdam
500 bls, Karl H Landes & E Balint, Hong Kong
116 bgs, Rotterdam
72 bls, C M Van Sillevoldt, Amsterdam
6,584 pkgs, Rotterdam
302 bls, C T Wilson, Rotterdam
488 bls, Becker Mayer Seed Co, Rotterdam
945 bls, A C Israel, Rotterdam
172 bls, Sino Java Inc, Rotterdam
222 bls, A G Dunn, Rotterdam
518 bls, Knickerbeker Mills, Rotterdam
525 bls, Karl H Landes & E Balint, Rotterdam
252 bls, Consumers Import Co, Rotterdam
274 bls, M J Golombeck, Rotterdam
156 bls, Kellys America Ltd, Rotterdam
CASTOR BEANS—6,665 bgs, D Levin, Salvador
387 bgs, Baker Castor Oil Co, Port Au Prince
2,860 bgs, National City Bank, Djibouti
2,849 bgs, Baker Castor Oil Co, Bangkok
2,398 bgs, M H Hakkak & Co, Khorramshahr
460 bgs, Parviz Vahabzadeh, Khorramshahr
OIL—220 tons, Baker Castor Oil Co, Bombay
100 tons, Fallek Products Co, Bombay
100 tons, Smith Welhman Co, Bombay
CHILLIES—160 bgs, John Holt & Co, Lagos
126 bgs, Massawa
740 bgs, National City Bank, Massawa
CINCHONA PRODUCTS—21 cs, R W Greeff & Co, Rotterdam
CINNAMON LEAF OIL—3 dms, Volkart Bros, Colombo
QUILLS—100 bls, Louis Furth, Colombo
100 bls, Volkart Bros, Colombo
CLOVES—280 bls, Zanzibar
17 bls, Rotterdam
COALTAR DYES—36 cks, Hensel Bruckmann & Lorbacher, Rotterdam
67 dms, C A Haynes, Rotterdam
24 cks, Wilson Export Corp, Rotterdam
2 cans, Hensel Bruckmann & Lorbacher, Rotterdam
COCONUT OIL—1,278 tons, Argo Products Corp, Rotterdam
900 tons, E F Drew & Co, Cebu
26 dms, E F Drew & Co, Cebu
COD LIVER OIL—400 bbls, Arista Oil Products Co, Alesund
155 dms, Arista Oil Products Co, Alesund
100 dms, Scandinavian Oil Co, St Johns
50 dms, Riley Whiteman Walton Co, St Johns
200 dms, Oslo
COLOMBO ROOT—190 bgs, S B Penick & Co, Lindi
95 bgs, Meer Corp, Lindi
COPAL GUM—155 bgs, Internatio Rotterdam, Manila
COPRA CAKE—6,720 bgs, G L F Exchange, Manila
COTTON LINTERS—1,096 bls, J H Schroder, Antwerp
731 bls, Williamson Northup Co, Santos
87 bls, A Siegle, Tampico
CUMIN SEED—86 bgs, Istanbul
DAMMAR GUM—210 bgs, O G Innes Corp, Singapore
140 bgs, Internatio Rotterdam, Singapore
85 bgs, Far Eastern Commodities Corp, Tandjong Priok
DEHYDROACETIC ACID—36 cks, Dow Chemical Co, Rotterdam
DEXTRIN—300 bgs, Paisly Products, Rotterdam
23 bls, Rotterdam
7 bls, Arabol Man Co, Rotterdam
25 bgs, Bank of Manhattan Co, Rotterdam
200 bgs, Stein, Hall & Co, Rotterdam
110 bgs, Federal Adhesives Corp, Rotterdam
DICYANDIAMIDE—5 cks, J Wolf Co, Rotterdam
DIETHYLAMINOACETOXYLIDIDE—2 cs, Astra Pharmaceutical Products, Gothenburg
DILLSEED—30 bgs, M J Golombeck, Bombay
80 bgs, Indoscan Corp, Bombay
DIMETHYLXANTHIN—15 cks, Antwerp
EUPHORBIA—26 bls, Meer Corp, Tuticorin
FLAXSEED — 10 ctns, Norwich Pharmacal Co, Curacao
FISH OIL COMPOUND—20 dms, J J Gavin & Co, Oslo
FUEL OIL—261,000 bbls, Esso Export Corp, Aruba
202,000 bbls, Esso Standard Oil Co, Aruba
199,459 bbls, Asiatic Petroleum Corp, Curacao
155,555 bbls, Hess Inc, Punta Cardon
GALL—1 ck, S S Svendsen, Wellington
OX—5 trcs, Armour & Co, Santos
GELATIN—10 bbls, Coignet Chemical Co, Antwerp
134 dms, D H Burdett, London
GERMANIUM DIOXIDE—1 cs, Harom Lichtenstein, Antwerp
OIL—27 dms, Belgian American Banking Co, Dar es Salaam
GLUE—510 bgs, Rotterdam
BONE—518 bgs, Transatlantic Animal By Products Corp, Rotterdam
GLYCERIN—60 dms, W J Byrnes, Sydney
43 tons, International Packers Ltd, Buenos Aires
GLYCOCOLL—20 cks, Rotterdam
GRAPHITE—900 bgs, Joseph Dixon Crucible Co, Hamburg
GUAIACWOOD OIL—10 cs, George Uhe Co, Buenos Aires
GYPSUM—2,400 tons, Newark Plaster Co, Walton
HENNA LEAVES—61 bls, Port Sudan
IODINE, CRUDE—25 kgs, Bache & Co, Yokohama
JALAP ROOT—32 bgs, Vera Cruz
KAURI GUM—120 bgs, U S Industrial Chemicals Co, Auckland
KIESERITE—2,000 bgs, Purepac Corp, Bremen
LACTIC ACID—248 bbls, John Block & Co, Hamburg
57 dms, John Block & Co, Hamburg
LEMON OIL—20 hf cs, Bank of Manhattan Co, Messina
100 qu cs, Bank of Manhattan Co, Messina
10 hf cs, National City Bank, Messina
30 cs, Messina
PEEL—57 bbls, Credit Siusse, Messina
85 bbls, National City Bank, Messina
LEMONGRASS OIL—6 dms, Swiss Bank Corp, Cochin
LIVERMEAL—360 bgs, Wessel Duval & Co, Bluff
500 bgs, Montevideo
LOCUST BEAN GUM—600 bgs, P A Dunkel, Rotterdam
100 bgs, Wm M Allison, Rotterdam
500 bgs, Amsterdam
MAGNESITE—6,400 bgs, Golwynne Chemical Corp, Madras
450 bgs, Barrett Transport, Split
MANGROVE BARK—1,154 bgs, Kaunitz & O'Brien, Lourenco Marques
759 bgs, Barkey Importing Co, Lourenco Marques
EXTRACT—2,100 bgs, Saxe Cutch Corp, Sandakan
MANNA—8 cs, D G Mamlok, Palermo
MENTHOL—100 cs, P A Dunkel & Co, Yokohama
20 cs, Sandovitch Bros, Yokohama
12 cs, Lo Curto & Funk, Yokohama
178 cs, Montevideo
MICRANTHUM HAYATA OIL—5 dms, Melanol Corp, Keelung
MILK SUGAR—50 bgs, Rotterdam
MONAZITE SAND—1,150 bgs, Rare Earths Inc, Swettenham
280 cans, Rare Earths Inc, Swettenham
MUSTARDSEED—250 bgs, Frank Tea & Spice Co, Rotterdam
MYROBALAN EXTRACT—380 bgs, Calcutta
NAPHTHALENE—1,835 bgs, Rotterdam
NAPHTHENIC ACID — 2,994 bbls, Stanco Inc, Aruba
NAPHTHOL—30 dms, Hensel Bruckmann & Lorbacher, Rotterdam
NEATSFOOT OIL—32 dms, Ovimpex Inc, Brisbane
NUX VOMICA—132 bgs, Meer Corp, Madras
OITICICA OIL—300 tons, Brazil Oiticica Inc, Fortaleza
327 bgs, Chase National Bank, Massawa
268 bgs, Manufacturers Trust Co, Massawa
134 bgs, Massawa
OPIUM—9 cs, National City Bank, Istanbul
1 cs, Chase National Bank, Istanbul
ORANGE OIL—1 dm, Manufacturers Trust Co, Puerto Plata
PEEL—130 bbls, National City Bank, Messina
OURICURY WAX—1,112 bgs, Frank B Ross, Salvador
696 bgs, Poons Co, Salavador
PALM OIL—512 tons, Lever Bros, Matadi
222 tons, Canada Packers Ltd, Matadi
806 tons, Balfour Guthrie, Matadi
252 tons, Procter & Gamble, Matadi
240 tons, Argo Products Corp, Rotterdam
286 tons, Rotterdam
27 tons, Colgate-Palmolive-Peet Co, Matadi
PAPAIN—7 cs, Mombasa
PAPRIKA—100 bgs, Valparaiso
PEATMOSS—3,825 bls, J E Bernard, Bremen
1,300 bls, E J Lang, Bremen
1,160 bls, National Distr, Bremen
500 bls, Gellco Inc, Bremen
1,695 bls, Premier Peatmoss Corp, Bremen
45 bls, Premier Peatmoss Corp, Hamburg
250 bls, Premier Peatmoss Corp, Dublin
1,100 bls, Bruco Peatmoss Corp, Hamburg
2,000 bls, New Amsterdam Import Co, Bremen
500 bls, New Amsterdam Import Co, Rotterdam
1,000 bls, Lewis Intern Co, Rotterdam
1,800 bls, Halfmoon Mfg & Trading Corp, Rotterdam
500 bls, Lewis Intern Co, Bremen
PEPPER, BLACK—600 bgs, Joensson & Cross, Cochin
80 bgs, Ludwig Mueller, Cochin
60 bgs, J Berlage, Cochin
400 bgs, Cochin
80 bgs, Irving Trust Co, Cochin
480 bgs, Alleppey
80 bgs, Nederlandsche Handel, Alleppey
360 bgs, Volkart Bros, Cochin
320 bgs, Virchand Panachand, Cochin
80 bgs, Superintendence Co, Cochin
80 bgs, Internatio Rotterdam, Cochin
80 bgs, K A Export Corp, Cochin
240 bgs, Mincing Trading Corp, Alleppey
320 bgs, East India Trading Co, Alleppey
320 bgs, Joensson & Cross, Alleppey
240 bgs, A C Israel, Alleppey
80 bgs, Virchand Panachand, Alleppey
80 bgs, Internatio Rotterdam, Alleppey
80 bgs, M Golodetz, Alleppey
80 bgs, Peter Commercial Corp, Alleppey
160 bgs, A G Dunn, Cochin
280 bgs, A C Israel, Cochin
120 bgs, Mincing Trading Corp, Cochin
80 bgs, East India Trading Co, Cochin
80 bgs, Borneo Sumatra Trading Co, Cochin
80 bgs, Otto Gerdau, Cochin
80 bgs, First National Bank, Los Angeles, Alleppey
80 bgs, Brown Bros, Alleppey
320 bgs, Joensson & Cross, Mangalore
360 bgs, East India Trading Co, Mangalore
80 bgs, Internatio Rotterdam, Kozhikode
80 bgs, A C Israel, Kozhikode
40 bgs, Joensson & Cross, Kozhikode
80 bgs, Superintendance Co, Kozhikode
80 bgs, D Hecht & Co, Mangalore
37 bgs, Rotterdam
RED—829 bgs, National City Bank, Massawa
WHITE—32 bgs, Mincing Trading Corp, Pangkal Pinang
64 bgs, U S & Indonesia Trading Co, Pangkal Pinang
339 bgs, Internatio Rotterdam, Pangkal Pinang
PETITGRAIN OIL—1 dm, W J Bush & Co, Port Au Prince
PETROLEUM, CRUDE—200,000 bbls, Esso Standard Oil Co, Puerto La Cruz
107,305 bbls, Cities Service Oil Co, Amuay Bay
201,889 bbls, Phillips Petroleum Co, Puerto La Crub
[illegible]BONATE—10 cks, Antwerp
[illegible] Kobe
POLLACKLIVER OIL—200 dms, Consumers Import Co, Yokohama
20 dms, Arista Oil Products Co, Yokohama
POLYVINYL CHLORIDE—60 bgs, Wedeman & Godnecht, Havre
POPPYSEED—200 bgs, C M Van Sillevoldt, Rotterdam
200 bgs, Louis Furth, Rotterdam
100 bgs, Levy & Levis Co, Rotterdam
POTASSIUM CYANIDE—396 dms, Phillip Bros, Hamburg
PRUSSIATE—150 kgs, Hunt Chemical Works, Antwerp
PSYLLIUMSEED—213 bgs, T M Duche & Sons, Bombay
PYRETHRUM FLOWERS—394 bls, U S Industrial Chemicals, Dares Salaam
POWDER—11 bbls, John Powell & Co, Antwerp
QUEBRACHO EXTRACT—5,253 bgs, Tanimex Corp, Buenos Aires
1,593 bgs, River Plate Corp, Buenos Aires
QUICKSILVER—50 flks, Chase National Bank, Tampico
100 flks, F W Berk & Co, Tampico
150 flks, Tampico
100 flks, N Y Trust Co, Tampico
20 flks, L H Keller, Tampico
QUINCESEED—20 bgs, Meer Corp, Khorramshahr
8 dms, P H Petry, London
QUINIC ACID—1 cs, R W Greeff & Co, Rotterdam
QUINIDINE SULFATE—4 cs, Chas L Huisking & Co, Hamburg
RADIUM ELEMENT—2 cs, Radium Chemical Co, Antwerp
RESIN, SYNTEHTIC—72 bgs, F L Kraemer, London
5 bls, F L Kraemer, London
RUTILE SAND—6,100 bgs, J W Hampton Jr, Brisbane
2,000 bgs, Intern Titanium Corp, Brisbane
5,973 bgs, Metal Traders Inc, Brisbane
RUTIN—1 dm, J L Hopkins & Co, Sydney
SAGE OIL—6 bbls, Wm E Martin, Rijeka
SAGO FLOUR—544 bgs, Chase National Bank, Singapore
SANDALWOOD OIL—4 cs, Volkart Bros, Bombay
SAPONIN—19 cs, W R Grace & Co, Valparaiso
SEEDLAC—274 bgs, East Asiatic Co, Bangkok
500 bgs, Gillespie Rogers Pyatt, Bangkok
300 bgs, Ralli Bros, Calcutta
100 bgs, Wm Zinsser & Co, Calcutta
200 bgs, Mantrose Corp, Calcutta
170 bgs, Sino Java Inc, Bangkok
SENNA LEAVES—150 bls, Sterling Drug Inc, Tuticorin
46 bls, Irving Trust Co, Port Sudan
SHARK LIVER OIL—100 dms, Consumers Import Co, Yokohama
30 dms, Wilbur Ellis Co, Yokohama
4 dms, Collett-Week-Nibecker, Oslo
SHELLAC—500 bgs, Mac Lac Co, Calcutta
76 bgs, Schwab Bros, Calcutta
SODIUM CYANIDE—6 dms, European Chemical Co, Rotterdam
SILICO FLUORIDE—900 bgs, Henry Sundheimer, Bremen
SPERM OIL—200 dms, Arista Oil Products Co, Pisco
STARCH—200 bgs, Bank of Manhattan Co, Rotterdam
STEATITE—275 cs, Leghorn
TALC—2,320 bgs, Charles Mathieu, Genoa
TANKAGE—1,098 bgs, Tupman Thurlow, Wellington
TAPIOCA FLOUR—1,000 bgs, Stein Hall & Co, Bangkok
550 bgs, Internatio Rotterdam, Tandjong Priok
THYMOL—5 cs, Magnus, Mabee & Reynard, Sydney
TRAGACANTH GUM—230 bgs, S B Penick & Co, Khorramshahr
364 bgs, Thurston & Braidich, Khorramshahr
144 bgs, Kohrramshahr
17 cs, National City Bank, Khorramshahr
73 bgs, Tragacanth Importing Corp, Khorramshahr
10 cs, Bank of N Y, Khorramshahr
10 cs S B Penick & Co, Khorramshahr
76 bgs, S B Penick & Co, Rotterdam
TUNG OIL—1,322 tons, North American Continental Co, Buenos Aires
TURMERIC — 160 bgs, Mincing Trading Corp, Cochin
160 bgs, Volkart Bros, Cochin
160 bgs, Irving Trust Co, Alleppey
320 bgs, Alleppey
UREA—4,000 bgs, American Cyanamid Co, Rotterdam
182 bgs, Terra Chemicals Inc, Rotterdam
1,000 bgs, Manufacturers Chemical Co, Gothenburg
273 bgs, Rotterdam
VANILLA BEANS—55 cs, Otto Gerdau, Vera Cruz
28 cs, F Huber & Co, Semarang
9 cs, Zink & Trieste, Semarang
WATTLE BARK—6,567 bls, Hammond & Carpenter, Durban
1,103 bls, Olson Sales Agency, Durban
1,089 bls, Durban
EXTRACT—1,368 bgs, Olson Sales Agency, Mombasa
4,089 bgs, Barkey Importing Co, Mombasa
WHITING—1,400 bgs, N H Weitzner, Antwerp
1,161 bgs, Pluess Staufer, Antwerp
40 bgs, C B Chrystal, London
WOLFRAM ORE—252 bgs, National City Bank, Bangkok
112 bgs, National City Mank, Rangoon
WOOL GREASE—108 dms, Croda Inc, Bremen
72 dms, J J Gavin & Co, Nagoya
58 dms, Fanning Chemical Corp, Nagoya
47 dms, Bopf Whittman Corp, Nagoya
54 dms, N I Malmstrom, London
105 cks, Antwerp
YLANG YLANG OIL—1 ck, Havre
ZIRCON—4,000 bgs, International Titianium Corp, Brisbane
2,000 bgs, Bershire Chemicals, Brisbane

Baltimore

ARSENIC, CRUDE—62 bbls, American Smelting & Refining Co, Tampico
KIESERITE—400 bgs, Wm H Massen, Bremen
MANGANESE ORE—753 tons, Metal Transport Corp, Callao
659 tons, Phila National Bank, Izmir
MUSTARDSEED—300 bgs, Amaren Trading Corp, London
PEATMOSS—2,400 bls, Atkins & Durbrow, Bremen
400 bls, Trans Sphere Trading Corp, Bremen
1,214 bls, C Gastmeyer, Rotterdam
2,300 bls, Halfmoon Manufacturing & Trading Corp, Rotterdam
VANILLA BEANS—64 cs, McCormick & Co, Vera Cruz

Boston

COTTON LINTERS—66 bls, Bunge Corp, Pisco
23 bls, Bunge Corp, Callao
GELATIN—200 bgs, H P Lampert & Co, Rotterdam
NAPHTHALENE—500 bgs, Fallek Products Co, Rotterdam
PEATMOSS—2,900 bls, Premier Peatmoss Corp, Bremen
400 bls, Halfmoon Manufacturing & Trading Corp, Rotterdam
SPERM OIL—585 dms, Bunge Corp, Pisco
500 dms, Arista Oil Products Co, Pisco

Los Angeles

AMMONIA CATALYST—27 dms, Shell Chemical Corp, Gothenburg
CALCIUM CHLORIDE—500 bgs, C M C Chemicals Inc, London
CITRONELLA OIL—1 dm, Mefford Chemical Co, San Jose
COPRA CAKE—6,000 bgs, Balfour, Guthrie & Co, Cebu
FISH MEAL—2,087 bgs, Wilbur Ellis Co, Ilo
544 bgs, Wessel Duval Co, Callao
2,734 bgs, Wessel Duval Co, Chimbote
IMPREGNATING SALT—150 dms, Warren Southwest Inc, Gothenburg
LINSEED MEAL—2,000 bgs, Pacific Vegetable Oil Corp, Kobe
LITHIUM ORE—144 bgs, American Potash & Chemical Corp, London
POTASSIUM CYANIDE—100 dms, C M C Chemicals Inc, London
SESAME SEED—513 bgs, B C Ireland Inc, Corinto
125 bgs, Hismoco American Co, Corinto
100 bgs, W R Grace & Co, Corinto
SODIUM CYANIDE—100 dms, C M C Chemicals Inc, London
UREA—445 bgs, Bunge Corp, Yokohama
ZINC SULPHITE—67 bbls, Warren Southwest Inc, Gothenburg

Newport News

PEATMOSS—750 bls, W M Stone & Co, Bremen

Norfolk

COCOA RESIDUE—5,188 bgs, Woodward & Dickerson, Rotterdam
PEATMOSS—1,200 bls, Atkins & Durbrow, Bremen
STARCH—100 bgs, Morningstar Nicol, Rotterdam
POTATO—200 bgs, Stein Hall & Co, Rotterdam

Philadelphia

ASBESTOS FIBER—1,000 bgs, Bankers Trust Co, Lourenco Marques
561 bgs, Phila National Bank, Durban
5,600 bgs, Keasby & Mattison, Lourenco Marques
460 bgs, Phila National Bank, Lourenco Marques
BERYL ORE—30 kgs, American Metals, Antwerp
BONEMEAL — 3,200 bgs, Credit Suisse, Buenos Aires
CARAWAY SEED—50 bgs, Rotterdam
CASEIN—1,000 bgs, National Casein Sales, Buenos Aires
500 bgs, E Lang, Buenos Aires
500 bgs, National Casein Sales, Gothenburg
CASTOR OIL—320 tons, Bank of California, Fortaleza
CODLIVER OIL—31 dms, Arista Oil Products Co, Antwerp
CRESYLIC ACID—200 dms, Concord Chemical Co, Bremen
FISHMEAL—16,047 bgs, Corn Exchange Bank, Lobito
GLYCERIN—180 tons, Buenos Aires
547 dms, Chemical Bank, Marseilles
MANGANESE ORE—10,185 tons, E J Lavino, Bombay
102 tons, Marseilles
MOLASSES—1,979,971 gls, Chas Kurz, Pastelillo
906,196 gls, Boqueron
1,097,633 gls, Santiago
MUSTARD SEED—960 bgs, Louis Furth, Antwerp
NAPHTHALENE — 7,526 bgs, Barrett Division, Rotterdam
PEATMOSS—2,060 bls, Keer Mauer, Bremen
5,539 bls, Bank of Manhattan Co, Bremen
6,428 bls, Bremen
900 bls, E Dunwoody, Bremen
PETROLEUM, CRUDE—318,288 bbls, Atlantic Refining Co, Puerto La Cruz
104,377 bbls, Atlantic Refining Co, Las Piedras
170,703 bbls, The Texas Co, Sidon
228,449 bbls, Gulf Oil Corp, Las Piedras
117,757 bbls, Gulf Oil Corp, Mena Al Ahmadi
118,738 bbls, Socony Vacuum Oil Co, Banias
187,125 bbls, Socony Vacuum Oil Co, Mena Al Ahmadi
UREA—983 bgs, Irvington Trust Co, Rotterdam
VANILLA BEANS—46 cs, McCarthy Inc, Marseille
20 cs, Zink & Trieste, Vera Cruz
WATTLE BARK—529 bgs, Olson Sales Agency, Mombasa
ZIRCONSAND—38,700 bgs, Brisbane

San Francisco

AMMONIA CATALYST—27 dms, Shell Chemical Corp, Gothenburg
CELERYSEED—188 bgs, W F Malincke, Bombay
COPRA—300 tons, El Dorado Oil Works, Cebu
265 tons, El Dorado Oil Works, Masbate
500 tons, Cebu
457 tons, Masbate
FISHLIVER OIL—12 dms, Harper Robinson & Co, Yokohama
FISHMEAL—862 bgs, Lindforsd Chemical Co, Callao
1,746 bgs, Internatio Rotterdam, Talcahuano
GALENA—1,100 bgs, American Smelting & Refining Co, Manila
LOCUST BEAN GUM—100 bgs, Stein Hall & Co, Genoa
OLIVE OIL—250 dms, A Giurlani & Bros, Leghorn
PALM OIL—353 tons, Belawan Deli
PHTHALIC ANHYDRIDE—1,016 bgs, Rosenthal Bercow, Kobe
SAFFRON—3 cs, R Vannucci Co, Genoa
SESAMESEED—462 bgs, B C Ireland, Corinto
115 bgs, W R Grace & Co, Corinto
75 bgs, Hismoco America, Corinto

Nickel Stainless Steel Rules Revision Reported

The National Production Authority last week announced completion of procedures governing the use and distribution of nickel bearing stainless steel in the third quarter of 1953.

Procedures for obtaining nickel bearing stainless steel have been simplified for manufacturers of B products. Most manufacturers will be able to self-authorize orders for their third quarter requirements without application to NPA. The new system will be effective for the third quarter only. Beginning with the fourth quarter, no priorities assistance will be given for acquisition of nickel bearing stainless steel for purely civilian uses, and allotment authority will be limited to military and atomic energy programs.

Obituaries

Georges Chiris

Georges Chiris, retired president and board chairman of Etablissements Antoine Chiris, Grasse, France, of which Antoine Chiris Company, New York, is an affiliate, died April 9 in Marrakech, French Morocco, it was announced in New York last week. He was eighty-one years old.

In 1900 Mr. Chiris took over the management of the family business upon the death of his father. He developed the Algerian plantations created by his father and founded numerous companies in the French empire and abroad. He formed the English and American firms for the manufacture and distribution of aromatic raw materials. He was credited with originating the manufacture of artificial silk.

N.N. Dalton

N. N. Dalton, formerly research consultant for the Glycerine Producers Association, died in Kansas City, Mo., April 26. He had been retired since 1951.

Mr. Dalton joined the glycerin division of Procter & Gamble Company in 1899. In 1903 he became associated with Peet Brothers Manufacturing Company, and in 1910 became its vice-president. In 1926 he was made vice-president of Palmolive-Peet Company and two years later of the Colgate-Palmolive-Peet Company. Later he became executive vice-president of that organization. In 1934 he severed his connections with the firm to devote his time to the Glycerine Producers Association.

John C. Banser, general counsel for the Barium Steel Corporation, New York, died April 25 in Cranford, N. J. He was sixty-six years old.

William A. Brown, retired secretary of United States Steel Corporation, died April 29 in New York. He was sixty-seven years old. His retirement in September concluded thirty-five years with the company.

William Hassig, senior scientist of the Institute of Inter-Scientific Research, Chicago, died April 29 in Chicago. He was seventy-eight years old.

Joseph Koss, assistant treasurer of the Nipissing Mining Company, Ltd., Canada, died April 29 in New York. He was sixty-nine years old.

J. Milton Lummis, formerly vice-president of the Gaynor Glass Works, Bridgeton, N. J., died in Elizabeth, N. J., April 26. He was sixty-seven years old.

Raymond E. Rohrenbeck, a lubricating engineer with the Swan-Finch Oil Corporation, New York, died April 26 in Hackensack, N. J. He was forty-eight years old.

Willis F. Roth, vice-president of the Standard Oil Company (Ky.), died April 25 in Sarasota, Fla.

Robert M. Schrader, assistant general purchasing agent for Continental Can Company, New York, died in that city April 24. He was fifty-five years old.

Hugh M. Smallwood, head of the department of analytical research at the United States Rubber Company's Passaic, N. J., laboratories, died April 27 in Newark, N. J. He was forty-nine years old.

Gerritt van der Meulen, retired manager of A. Klipstein & Sons, died April 24 in Brooklyn, N. Y. He was eighty-five years old.

Tidelands Bill

—*Continued from page 4*

by wide margins in the senate. The first was an amendment by Sen. Paul Douglas of Illinois to limit the state boundaries to three miles for all states, provide for administration of the continental shelf by the Secretary of the Interior and provide that all royalties collected from leases on the shelf be earmarked for aid to education. The amendment was defeated 58 to 26. Sen. Mike Monroney of Oklahoma proposed a similar amendmnt, but providing that the revenues be used for retirement of the public debt. His amendment was defeated 59 to 22.

Developing Continental Shelf

Although the bill reserves the continental shelf to the federal government, it contains no provisions for developing the resources of these lands. Sen. Robert Taft of Ohio, majority leader, said that it is planned to bring in a separate bill dealing with this subject in about two weeks. The house bill provides for administering and developing these lands by the Department of the Interior.

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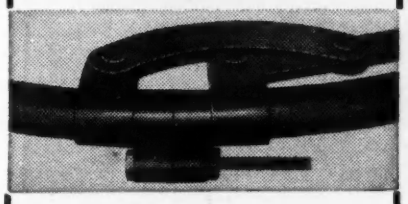

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Botanical Drugs, Spices, Gums

Price fluctuations in this market last week were largely confined to seeds and spices, although there were slight changes in some botanicals. Overall the price trend was downward, lowering the index to 107.11.

Tumeric root was advanced ½ cent per pound while laurel leaves were quoted off ½ cent from former levels. Among the seeds, there was some softness shown in the market. Cardamon bleached and medium were reduced 15 cents per pound, and decorticated Guatamalan was off 5 cents from former schedules. Dutch caraway seeds were down ¼ cent, and Indian fennel was up 1 cent. Oriental mustard seed for September/October delivery was quoted ¼ cent lower, while Nigerian mustard advanced 1 cent. Dutch and Turkish poppy seeds declined fractionally in a weaker market. Natural sesame was off ½ cent.

Weak spots in the last few days in the spice market, so far as trading was concerned were ginger and cloves. Clove trading may have been discouraged by advancing prices because of higher demands in primary markets, especially Zanzibar. Cassia was reduced 3 cents per pound.

Ginger prices were off fractionally. Pepper was in an uncertain market with no signs as to just where the market would finally settle. Strong advances in price made in February and March may have discouraged sufficient buying then, that will now support the market better than expected. Recent weeks have seen pepper prices fluctuate, with the overall trend definitely downward. This, it was felt, might result in better than normal May business, which is ordinarily a slow season.

Botanical drugs were not in very active demand at present, buyers tending to limit purchases to immediate needs and placing orders of moderate size. Several items were virtually exhausted in warehouse inventories, and new crop collections were awaited. The biggest worry with respect to next year's crops was the matter of adequate labor supply for gathering. Last year having been a very short harvest because of labor shortages and a severe drought in the South, made it necessary that the 1953 collection be a substantial one, if enough botanical drugs for the next year are to be had.

Balsams

Copaiba—There was no departure last week from the price brackets ranging from 90c. to $1.15 per pound, which have characterized this market in recent weeks. The steady price position was regarded as indicating a certain firmness in the market, even though trading was limited. Most trading done was at the jobbing level, and while interest was not active it was sufficient to maintain current levels.

Fir—Prices ranging from $3.25 to $3.30 per gallon on Oregon fir balsam were essentially nominal, most dealers having little or no stocks, and waiting for the new crop, due next Fall. Canadian Balsam was unchanged from the $32 to $33 per gallon, a level that was well held and expected to hold for the immediate future. Trading was quiet and limited, industrial demand remaining in balance with supply. Some quarters felt that supplies would get somewhat tighter before the new crop arrives in the Fall months.

Peru—The stronger tone shown in the market a month ago was short lived, and current trends were softer. However, interest was sufficient to maintain price levels prevailing over recent weeks, although trading was largely hand to mouth buying.

Tolu—Prices were unchanged on tolu balsam, in the range of $2.85 up to $3.85 per pound, depending upon quantity and seller. Lower prices reported or rumored in the market were based on tolu balsam

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Bitter almonds, 50 bags: contains hydrocyanic acid.
Apricot kernels, 20 bags: contains hydrocyanic acid.
Black pepper, 80 bags: moldy and insect bored.
Cassia, 7,149 bags: filthy.
Chamomile flowers, 80 bales: dead insects.
Orange peel, 150 bags: wormy and moldy.

Price Trends

Advanced

Drugs

Turmeric, Alleppey, 1¼c. per lb.
Madras, ½c. per lb.

Other Articles

Anise, Mexican, 1c. per lb.
Cinnamon, Ceylon No. 2, 1c. per lb.
"0000," 2c. per lb.
Cloves, Ceylon, 2c. per lb.
Zanzibar, 6c. per lb.
Mustard, Nigerian, ½c. per lb.

Reduced

Drugs

Laurel leaves, Greek, ½c. per lb.
Yugoslavian, ½c. per lb.

Other Articles

Caraway, Dutch, ¼c. per lb.
Cardamom, bleached A, 15c. per lb.
medium, 15c. per lb.
decorticated, Guatamalan, 5c. per lb.
Cassia, Batavia, shortstick, 1c. per lb.
Chinese rolls, 3c. per lb.
selected, 3c. per lb.
Saigon, medium, 3c. per lb.
broken, 3c. per lb.
Fennel, Czech, light, 5c. per lb.
Ginger, Jamaican, No. 3, ½c. per lb.
Rhattoon, ½c. per lb.
Nigerian, ½c. per lb.
Mustard, Oriental, ¼c. per lb.
Pepper, black, 4c. per lb.*
red, Turkish, 1c. per lb.
white, 4c. per lb.

Comparative Price Indexes

(100=1949 average)

Last week	Prev. week	Last month	May 2, 1952
107.14	107.19†	107.59	113.95

*Obtained too late for index calculation.
† Revised.

(*For Current Prices see page 9*)

sold as it arrived from abroad, and was not representative of material listed in the above price range.

Barks

Fringetree—Recent weeks had seen little demand for this item, despite the low inventories on hand as a result of a short crop caused by last year's drought.

Sassafras—Prices were unchanged. Old crop material was fairly well exhausted, but demand was light. New crop collections this year should be stimulated, it was felt, in order to have better collections than last year because of the low volume of carry-over.

Beans

Vanilla—Prices were unchanged from those of the previous week, but the market was somewhat better and characterized by more interest. The market in Madagascar was very firm. No sign of any weakening in primary markets was anywhere to be seen, and dealers felt that beans would maintain their strong position.

Flowers

Chamomile—The market was described as firm in view of limited inventories and relatively higher replacement costs. Prices held to former levels.

Rose — Prices varied with different sellers in the range of 55c. to 65c. per pound. The market was steady and supplies considered adequate.

Herbs and Leaves

Belladonna—Demand was said to be steady and quiet, most sales moving against contract with industrial consumers, and little spot trading reported other than routine interest. Prices were firm and unchanged.

Catnip—It was hoped that the handicap of a small labor supply would be overcome in collecting this year's catnip crop, because the new crop was seriously needed, primary market warehouses having exhausted their inventories.

Sage—Prices on all grades held firm last week. Demand was described as slow against adequate supply.

Laurel—Both Portuguese and Turkish leaves were priced on a nominal basis last week, there being virtually none available. Greek leaves were firm in the range of 9 to 10 cents per pound, while Yugoslavian leaves were quoted in the range of 9 to 9½ cents per pound.

Roots

Gentian—Demand was reported as relatively slow on this item, but this did not adversely affect the firm price pattern which has characterized this market in recent weeks.

Ipecac—Market prices were steady last week, after the 10 cent decline of the previous week. Demand was said to be

For Late Market Developments, See Page 4

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slow, but dealers were looking forward to some improvement in the near future.

Turmeric—Alleppey and Madras were both stronger last week, prices advancing 1½ cents per pound on Alleppey and ½ cent on Madras. Haitian was unchanged at 9 to 9½ cents per pound. The new price ranges established by the upward adjustment, listed Alleppey at 20½ to 21 cents per pound, and Madras at 11 to 11½ cents.

Seeds

Anise—The anise seed market was steady last week, except for somewhat higher prices on Mexican, which advanced a full cent per pound, bringing the market to 15 cents. Business was said to be quiet, and buying limited to immediate needs.

Caraway—Dutch seeds were off ¼ cent per pound last week, prices in some quarters being off fractionally to 9¼ to 9½ cents per pound. Demand was described as weak.

Cardamom—Prices were reduced fifteen cents per pound last week on bleached and medium grades. Bleached bold was listed at $3.25 per pound, as compared with the previous price of $3.40. Medium in case lots was quoted at $2.90, as against the former price of $3.10. Decorticated was largely nominal except for Guatemalan which last week declined 5 cents per pound, bringing current price levels of $1.85.

Cumin—Iranian seed moved mostly in the range of 14½ to 14¾ cents per pound. Turkish material was priced ¼ cent under Iranian material. Moroccian and Syrian were nominal.

Fennel—Light seeds of Czechoslovakian origin were reduced last week by 5 cents per pound, bringing the price range down to 25 to 26 cents per pound. French and Syrian seeds were strictly nominal, and Indian seeds were marketed at around 20 cents per pound, up ½ cent over previous levels. Business in general was described as slow.

Mustard—Oriental seed was off ¼ cent per pound last week, bringing quotations down to 5¾ cents per pound on September/October shipment. Other grades remained unchanged. On Nigerian seeds last week prices ranged from 12 to 13 cents per pound in the New York market, up ½ cent over former levels. Stronger price position was felt to be more affected by supply than by any notable demand, because business was said to be slow.

Poppy—The softness in the seed market was reflected in poppy seeds last week, as Dutch dropped ½ cent and Turkish declined ¼ cent per pound. Dutch quotations ranged from 15½ to 16 cents per

—Continued on page 75

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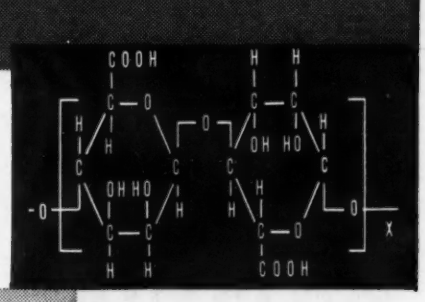

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Essential Oils, Other Aromatics

Business was noticeably better in the essential oils and aromatic chemicals market, largely as a result of purchases of seasonal items. Beverage manufacturers increased their call for citrus flavoring oils and brought about a considerably firmer tone in most of these materials. While some items remained spotty, domestic oils generally held steady and showed a firm tone. Aromatic chemicals were affected to a certain degree by seasonal demands, chiefly in the colognes and toilet waters lines. There was less price activity among aromatics and most materials were in adequate supply.

Anise oil was offered at advanced quotations as the import situation changed. Shipments of oil will in the future require a licence from the Foreign Assets Control Board, and specific permission will be required for each lot that is brought into the country. Some difficulty is expected in bringing in imports, and the situation will require some time for clarification. Apricot kernel oil was advanced, changing the usual trend toward stabile prices for this oil. The week's price changes were entirely in an upward direction and the index advanced .05 point to stand at 154.60.

Seasonal demands for orange oil, chiefly from soft drink manufacturers, brought considerably firmer price schedules for both California and Floridian oil. The large supplies of oil that until recently were responsible for depressed prices have been reduced to a large extent. Continued good demand for material was expected to bring further increased quotations as supplies became shorter. Lime oil was affected by the same seasonal demands and showed firmer price quotations for all types, with an increase effected for expressed West Indian oil. Lemon oil remained in very tight supply, with both domestic and imported oils falling below current market needs.

Spanish rosemary oil of USP specifications was advanced, chiefly as a result of firmer views on the part of shippers at the primary market. Technical oil was not affected. The Spanish government has maintained a strict control over export floor prices. Reports indicated that the government has not hesitated to withdraw export licenses from shippers not adhering to the established price pattern.

Price Trends

Advanced

Oil, anise, USP, 5c. per lb.
Apricot kernel, 11c. per lb.
Lime, expressed, West Indian, 50c. per lb.
Orange, California, 10c. per lb.
Florida, 5c. per lb.
Rosemary, Spanish, USP, 10c. per lb.

Reduced

None

Comparative Price Indexes

(100=1949 average)

Last week	Prev. week	Last month	May 2, 1952
154.60	154.55	154.27	192.79

(*For Current Prices see page 9*)

Essential Oils

Anise—The situation in regard to Dutch oil, which has been offered on the market in sizable amounts lately, has altered radically. Shipments from now on can be brought in only with a license from the Foreign Assets Control Board, it was stated by informed trade sources. A license will be required for each lot of oil brought in, for the purpose of insuring that the oil is of permissible origin. The changed import regulations were felt to be certain by trade observers to cut down on the availability of the oil and possibly to tighten up supplies to a considerable extent. Prices were strengthened during the past week, an earlier low offer of $1.85 per pound on 25 pound lots advancing to $1.90. Many holders of the oil were reported being not anxious to sell at the present time, believing that more attractive prices would be in effect in the very near future.

Apricot Kernel—This usually quiet oil has showed some activity of late, and prices in the past week demonstrated considerable strengthening. An earlier low offer at 34c. per pound was increased to 45c., thus narrowing the range. The latest top quotation was reported at 46c. per pound. The price structure was expected to remain steady at this new level, trade sources stated.

Bergamot—Indications last week pointed to continued stability for natural Italian oil as quotations held within their earlier range. Some comment was heard in trade circles concerning the possibility of a firmer tone, but as yet this trend was not translated into higher quotations. The current price range extended upward from a low offer at $11.25 per pound. Cables from the primary market over the past few weeks have shown only small fluctuations and no overall price trend has become apparent. A good inquiry was reported during the past week and was filled without great difficulty from currently ample stocks. With the producing season ending, however, the availability of replacement material might be affected in a noticeable degree, trade sources stated. Artificial oil was offered within its earlier range, the low edge being $2.90 per pound.

Cajeput—This oil has become a somewhat scarce item on the market, a check with dealers in the past week showed. A relatively small number of offers was available and they appeared to be for limited quantities of the oil. Inquiry remained good but showed no sizable increases over that of the past weeks, trade sources stated. Users of the oil were almost certain to continue to find it somewhat limited in supply for the immediate future, as the replacement picture offered considerable uncertainties.

Caraway — Recently in a somewhat weaker position the oil remained steady on spot during the past week. Some further weakness in replacement costs was apparent, however, when cables in the past ten days registered a drop. Inquiry was reported moderate and was filled without difficulty from material currently on hand.

Cinnamon—Oil currently listed in OPD as "Cinnamon, USP," formerly as "Cassia, USP," was offered from $5.50 per pound up to $7.50. A movement in an upward direction was apparent during the past week as most prices advanced. At latest advice, the offer at $5.50 was maintained. Supplies of the oil were limited and replacement was reported difficult to obtain. Cinnamon bark oil was unchanged in its earlier range from $23 and up, and leaf oil held steady at $1.40 and up.

Dillweed—Available supplies of oil have tightened to a noticeable degree. A considerable amount of difficulty might shortly be experienced in obtaining replacement, trade sources stated. Chief reason for the trend was the seasonal demand for the oil in canning industries which brings about a sizable call during the spring and early summer months. This call has already been noted, it was reported in the trade, and would have to be met with material from last year's crop, the next crop not being available until late August and early September. Prices prevailing during the past week ranged upward from $4 per pound.

Eucalyptus—Inquiry remained quiet and the market generally without feature. There were no price changes of any note. The quotations at which the material is currently offered represent the attractive prices usually in effect at this time, trade sources stated. No sizeable increase in demand was expected for several months, although some use has been encountered from quarters other than the seasonal usage by pharmaceutical houses and proprietary medicine manufacturers.

Garlic—Supplies of oil remained tight and only limited amounts were available for sale, it was reported in the trade. With imports remaining considerably below the level required to fill current potential demand, the situation threatened to remain acute for the foreseeable future. Most sales were limited to very small amounts, sometimes a matter of ounces, trade sources stated. Prices remained firm at earlier levels, ranging upward from a minimum offer of $9 per ounce.

Geranium—No extensive changes in the situation existing previously were noted during the past week. Fluctuations in prices followed the course of demand and produced no discernible trend in either direction. Algerian oil was offered from $10.25 per pound, while Bourbon oil prices ranged from $9.75. A continued easy situation for replacement was expected by trade observers for the immediate future.

Grapefruit — Users of this citrus oil found supplies no less scarce during the past week. Material threatened to remain below full market requirements for some time, largely as a result of insufficient production rather than a noticeably increased demand. Prices ranged upward from the market's minimum offer at $2.75

For Late Market Developments, See Page 4

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per pound and appeared very firm at existing levels.

Lavandin—This market saw little activity during the past week. Inquiry remained within the limits of earlier demand and showed no tendency to increase. Sufficient material was reported on hand to fill immediate market needs and replacement continued easy. The price range held close to earlier offers, a price of $2.10 per pound forming the low edge. Replacement costs were unchanged.

Lavender—Spanish spike oil showed a considerably firmer tone during the past week and some spot prices advanced. An earlier minimum of $1.50, offered from at least two sources, was maintained all during the past week. In view of a firm attitude on the part of the Spanish government, which has exercised a strict control on export floor prices, the replacement price level was expected by the trade to go up in the near future. French flower oil was unaltered in either its price or supply status. With some months yet remaining before new crop oil would appear, the situation appeared likely to remain steady.

Lemon—The tight supply condition in recent months has found little relief from imports of Italian oil. One reason has been given as the negligible production of oil in Sicily, where the lemon crop has ripened slower than usual because of last summer's drought. The situation on the island has been further affected by exceptionally large exports of whole lemons, reducing even further the amount of fruit available for oil production. Most manufacturers are reported unwilling to begin oil production without a sizable amount of lemons on hand because the processing of small lots has been found unprofitable. Consequently there appeared little possibility of any large amounts of oil available for export from the island in the immediate future.

Supplies of domestic oil continued far below demand last week presenting a serious problem to users. Most dealers were able to supply their customers only in part and some for this reason allocated their supplies in order to supply an equitable distribution. Prices remained firm within their earlier range of $6 to $6.50, depending upon brand, and a continued pinch in supplies was expected as demand followed its usual trend of seasonally increased consumption.

Lemongrass — Prices held steady throughout the week within the range in effect earlier. A minimum offer at $1.10 per pound was maintained, while other prices ranged upward to $1.55. No pronounced trend has been apparent during the past weeks, and replacement costs have remained close to previous levels.

Lignaloe Wood—Mexican oil remained available at its recently advanced price of $3.25 per pound. The market showed a more active appearance following the firming in Brazilian bois de rose oil. No extensive upward price revisions have appeared, and trade sources stated that the trend was toward continued firm quotations at the present levels.

Lime—West Indian expressed oil was quoted from $7.75 per pound, up 50c. from the minimum previously in effect. Other quotations were firm and any changes would almost certainly be in an upward direction, trade sources reported. Demand has received an impetus from seasonal production of beverages and soft drinks, and a somewhat more active inquiry has been noted in the trade as a result. The amount of oil available has held adequate for demand so far, and dealers expected no difficulty in obtaining replacement in the immediate future.

Orange—Strengthened demands during the week before last were responsible for price advances by one large producer of California oil. During the past week the trend toward firmer prices continued and the prices of California oil climbed to a range of 75c. to $1.25 per pound, depending upon brand. This minimum offer was 10c. per pound above the earlier figure. Florida prices were raised by 5c. per pound, the new range lying between 70c. and $1. The increased price schedules reflected the greater seasonal demand from producers of beverages and soft drinks, which has been responsible for a considerable reduction in available supplies of oil. One dealer stated that although his prices have been advanced by only a small amount so far, he expected that they would have to go up very quickly in the near future. Trade sources agreed that further advances would be inevitable in the face of continued heavier demands and reduced stocks of oil.

Pimento—Berry oil, of NF specifications, was reported holding steady within its earlier price range. The source offering the minimum offer of $4.75 per pound has held this price without change and other offers ranging up to $5.75 were also steady. Leaf oil appeared to be tightening up to a noticeable degree, with replacement offers moving upward.

Rosemary—The trend toward firmer replacement prices, noted in the previous week, continued and produced a higher price structure for oil of USP specifications during the past seven days. An

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earlier quotation for this grade oil was advanced 10c. per pound by the quarter offering it at 65c. earlier. The increase was attributed to higher replacement costs in Spain. Technical oil, however, was unchanged from previous quotations. The range extended upward from a minimum offer of 60c. per pound and appeared steady at this level.

Aromatic Chemicals

Anethol—This aromatic has received considerable attention as a substitute for anise oil ever since that material became scarce. Recent developments in the market for that essential oil indicated that further difficulties in obtaining replacement were likely. Some increased interest in anethol was indicated as a result. Prices have held steady recently and in the past week were unchanged. Material of NF specifications were offered from a minimum quotation of $1 per pound, while the technical grade was priced upward from 75c. Production was reported ample for current inquiry and no difficulty in obtaining material was expected in the trade in the foreseeable future.

Butyl Phenylacetate — A comfortable balance existed in supplies of this aromatic, as production has been maintained at levels that put sufficient material on the market for most current demands. Prices ranged upward from $4.50 per pound. There has been no noticeable tendency to change existing price schedules in the past weeks and trade sources expected continued stability in quotations.

Linalool—Increases in the primary market for bois de rose oil have produced a firmer tone in aromatic derivatives of this oil. Linalool ex bois de rose was priced in a range extending upward from a minimum offer at $5.35 per pound during the past week and appeared steady, although with a firm undertone. The material derived from lignaloe wood was offered from $6.75 per pound.

Musk—Synthetic material was offered at unchanged price schedules and in quantities ample for most current demand. The synthetic product has, of necessity, replaced the natural material because of the scarcity of the latter. Virtually no stocks have been available since Asian conflicts cut off replacement material from Tibet. Prices for synthetic material varied with quantity, the lowest quotation for ambrette currently standing at $5.35, for ketone at $5.30, and for xylol at $1.50 per pound.

Styrolyl Acetate—The current price range of $1.45 to $1.70 per pound remained steady during the past week, with no changes in either direction. Trade sources reported a good demand for the material, and stated that production has been maintained at levels sufficient to put an adequate supply on the market. No significant changes in this situation of balanced supply was expected in the immediate future.

Botanical Market

—Continued from page 72

pound, while Turkish was quoted at 12½ to 13 cents.

Sesame—Hulled seeds were unchanged in price, but natural seeds declined ½ cent per pound in line with the softer tone in the seed market generally.

Spices

Cassia—The Batavia cuttings and longsticks were unchanged last week, but the short stick market showed a decline of 1 cent per pound. Chinese material was also off. Canton Kwangsi rolls were listed at 35 to 35½ cents cents and selected at 33 to 33½ cents per pound, off 3 cents from former levels. Saigon was also down 3 cents per pound, medium being quoted at 50 cents and broken at 47 cents.

Cinnamon—Prices on Ceylon advanced from 1 to 2 cents per pound last week on different grades. No. 2 was increased from the former price off 28 to 28½ cents up to 29 to 29½ cents. The "oooo" grade was moved up from a range of 39 to 40 cents, to a new range of 41 to 41½ cents per pound. This reversed the price shading trend of two weeks ago.

Cloves—The last few days saw a definite weakness in this market from a demand point of view, although prices were higher as a reflection of higher replacement costs. Current quotations on Ceylon ranged from $1.50 to $1.52 per pound, up 2 cents over former levels. Zanzibars were still higher at $1.54 to $1.55 per pound, up 6 cents over former quotations. The price of Zanzibars for shipment was likewise higher at $1.44 c.&f. Whether the reversal of the recent price trend was due to heavier buying by India, Pakistan and Indonesia was not yet clear cut and definite, but this was the general feeling.

Ginger—Jamaica No. 3, Rhattoon, and Nigerian spice was off ½ cent per pound last week, reflecting the generally softer tone in the spice market. Ginger demand, like that of cloves, was definitely off in the last few days. Current quotations listed No. 3 Jamaica at 14 to 14½ cents per pound, Rhattoon at 13¼ to 14 cents, and Nigerian at 11 to 11½ cents per pound for splits.

Pepper, Black — This market has shown wide fluctuations during recent weeks, and in the process the overall price trend has been downward following the advancing markets in February and March. Mid-week pepper prices were again lower. Malabar was quoted at $1.36 spot and $1.35 afloat. April, May and June shipments were listed at $1.34, and July at $1.33.

Normally April and May are quiet trading months in the pepper market. Just where the market would finally settle was a matter for conjecture. The sharp advances in price of February and March, it was felt, may have deterred certain buyers, who might now be inclined to come into the market for their requirements, and thereby lend a stronger tone to the market in the weeks immediately ahead.

Pepper imports were larger this year, but were felt not to be out of line with preceding years. For the season December through April, imports in 1951 amounted to 5,205 tons; 1952, 5,558 tons, and the 1953 imports have been estimated to be approximately 6,236 tons.

Friday prices on black pepper were as follows:—Spot, $1.38 per pound; afloat, $1.37; May shipment, $1.36; June shipment, $1.36; July shipment, $1.36.

Pepper, Red—Red peppers were firm and unchanged, except for Turkish, which was quoted 1 cent lower last week.

Pepper, White—This market was relatively steady, with the price trend also moving in a downward direction, current listings being in the range of $1.41 to $1.42, off about 4 cents for the week.

Flavor Catalog Issued by D&O

A new twenty-page catalog, describing nineteen different flavor lines and various types of vanilla concentrates, has been published by Dodge & Olcott, Inc., 180 Varick street, New York 14. Each group is fully described, individual flavor selection is listed, and suggested proportions and recommended applications are presented. Also included is a section devoted to certified food and cosmetic colors. The catalog is available to manufacturers on request.

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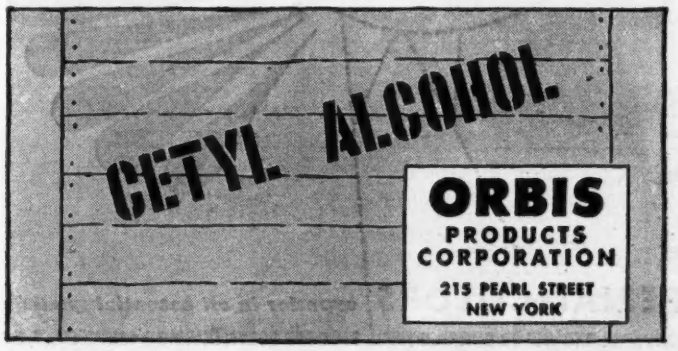

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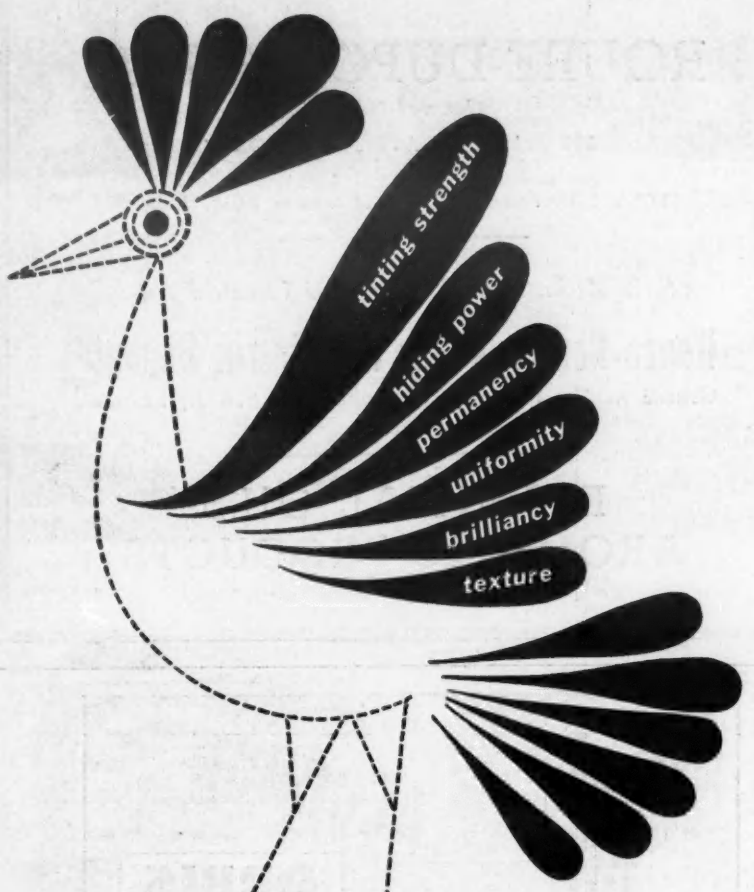

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Protective Coatings Materials

The only price activity in this market during the past week took place in the lead oxides and lead monosilicate. Firmer pig lead prices brought red lead, litharge, and orange mineral back up ½ cent. At the same time, the monosilicate advanced 0.48 cent in carlots. Other lead pigments or leaded zinc oxide prices were not effected by the change in the metal market.

There was no particular consumer reaction immediately, insofar as buying was concerned. However, firmer lead prices were expected to induce more buying. Producers said that the general line of paint materials were finding demand reasonably steady. The poor weather which prevailed over most of the country up until recent weeks has slowed the start of the spring season. Nonetheless, most sources were optimistic about the finish, and expected the season to show a good overall volume.

The general level of activity in the market for the various synthetic resins was reasonably good. As one producer put it, "There was no boom, and there was no bust. Business was just steady." Up to the present time, most of the support of the markets has been from industrial sales. Trades sales were not up to earlier expectations, however there were some signs that activity was starting to perk up.

Alkyd resins have enjoyed relatively good demand from industrial finishes and now some increases were becoming evident from trade sales. No particularly critical areas have developed in the supply picture of alkyds, even though some production has been lost through a strike. The raw material, phthalic anhydride, was getting tighter under similar circumstances. Thus far, production and demand were running nip-and-tuck. The markets for ester gums, maleics, and phenolics were quite similar to the general description of synthetics.

The market for the natural gums was still relatively quiet. Buying was on a basis of immediate needs only, but sales were fairly steady. Some pickup was anticipated with warmer weather. The shellac market was unchanged. Orange and bleached grades were steady in price. The casein market was the same as the previous week. A little more interest was noted in Argentine casein. Prices were in the same range.

Price Trends

Advanced

Lead monosilicate, 0.48c. per lb.
Red, 95%, 97%, 98%, ½c. per lb.
Litharge, ½c. per lb.
Orange mineral, ½c. per lb.

Reduced

None

Comparative Price Indexes

(100=1949 average)

Last week	Prev. week	Last month	May 2, 1952
89.78	89.77	90.60	99.88

(*For Current Prices see page* 9)

Prime Pigments

Earth Colors—South African production of mineral pigments during the first 9 months of 1952, according to the Department of Commerce, expressed in short tons, was as follows (figures for the corresponding period of 1952 in parentheses):—ochers, 5,007 tons (6,140); oxides, 1,737 tons (2,476); and umber 993 tons (726).

Exports amounted to 3,518 tons (Br. £27,808) in the 9 month period of 1953 and 4,426 tons (£35,870) during the first 3 quarters of 1952. The totals for oxides were 145 tons at £1,215 in the 1953 period, compared with 322 tons in 1952 at £2,617.

Lead Monosilicate—The price of this pigment advanced 0.48c. in carlots and ½c. in l.c.l. quantities last week as the trend in the metal turned upward. Current schedules for carlots were at 13.68c. per pound, while less than carlots were at 14.70c. per pound.

A source stated that there was no immediate pickup in sales of lead pigments, but more activity was anticipated with firmer pig lead prices. Prices of lead pigments other than the oxides and this monosilicate remained at their previously established levels.

Lead, Red—A price increase of the metal caused a similar advance in red lead prices. Current carlot quotations of the material 95 percent Pb_3O_4 were at 15¼c. per pound, while less than carlots were 16¼c. per pound. The 97 percent material became 15½c. per pound in carlots, and 16½c. per pound in less than carlots. Carlots of 98 percent were at 15¾c. per pound, and 16¾c. per pound in less than carlots.

Orange Mineral—Strengthening of the price picture of lead was reflected in an anvance of ½c. for this oxide. Current less than carlot quotations were at 18.60c. per pound, while carlots were 1c. lower.

Zinc Oxide—Total production of zinc oxide in February represented a decline of 3 percent due to the shorter working period, although the daily average rate of 608 short tons was 7 percent higher than the daily rate of 568 tons in January, information from the Bureau of Mines indicates. Stocks at producers' plants increased 9 percent to 26,009 tons to continue the upward trend in effect since September, 1952.

Total output of leaded zinc oxide dropped 21 percent in February. Production of lead-free grades continued to move upward.

A decrease of 10 percent in total shipments of zinc oxide was calculated on the basis of a 10 percent decline in sales of lead-free and a 13 percent decline in leaded zinc oxide sales in February.

Synthetic Resins

Alkyds—Demand for these resins has held up to a good level. Producers said industrial sales were still good and some increases were being felt from trade sales. It was added that trade sales up until recent weeks had fallen short of expectations in the metropolitan area of New York. This situation was felt to be largely due to the inclement weather. However, current thinking was that trade sales would turn out all right before the spring paint season is over.

Supplies were adequate to take care of the needs of consumers. No shortages have developed as a result of some lost production of phthalic anhydride. Production and demand were running nip-and-tuck in some spots, but supplies were not in critical shape for any items. Prices have remained at previously established levels. No changes were anticipated at this time.

Gum, Ester—Producers said that there was no significant change in this market. Demand was reasonably good. There were no shortages to cope with, and prices were steady. It was felt that the ester gums would enjoy a fairly good spring season. The start of the paint season for all synthetic resins did not show the anticipated increase in trade sales, but warmer weather in the east was beginning to bring evidence of a pickup.

Maleics—No particular changes were noted in this market. Demand was good. Producers were able to meet consumer requirements without supply difficulties. Much of the current activity was due to the volume of business in the furniture trade. Prices were steady at their old levels.

Phenolics—Trade sales have increased to some extent. Industrial sales have been sustained at a good level. Producers expected that the volume of business done in phenolics during the spring season would turn out quite well.

Although trade sales got off to a slow start with the poor weather, it was felt that they would show a fine finish. Prices were unchanged from previously established schedules. Consumers had no particular difficulties in obtaining enough material for their production requirements. The only sore spot in the supply picture was the long standing shortage of paraphenyl phenolics.

Urea-formaldehyde—Production of urea formaldehyde in Austria began in February 1951, according to the Department of Commerce. Construction of a plant was undertaken by a leading plastics firm in 1949; planned capacity was 35 metric tons monthly. The factory was completed in the latter part of 1950 and began commercial production after a month's trial operation. This was the first project in the plastics group to receive considerable assistance from counterpart funds.

Developments were favorable through 1951, when output was 212 tons. Production totaled 145 tons in the first 11 months of 1952. The product is more expensive than phenol formaldehyde, which has sometimes hampered sales.

Fillers and Extenders

Barytes—Nova Scotia produces about 98 percent of the barytes mined in Canada,

For Late Market Developments, See Page 4

according to the Department of Commerce. Output was 134,045 tons in 1952, 41,215 tons more than in 1951; virtually the entire amount was produced by one producer. Another source conducted large bulk tests in its plant at Brookfield for the recovery of white barytes, but production was only 853 tons.

Lacquer Materials

Dibutyl Phthalate—February production totaled 1,756,649 pounds, compared with January output of 1,301,710 pounds, according to the Tariff Commission.

Diethyl Phthalate—Production of this plasticizer in February amounted to 1,044,139 pounds, as against 1,132,006 pounds in January, information from the Tariff Commission relates.

Dioctyl Adipate—A producer announced an increase of 3c. per pound for this material due to the increased cost of raw materials. New schedules effective May 1 created a range of various producers quotations inasmuch as some sources have not advanced prices yet. Current prices were from 43c. to 46c. per pound in tankcars, 44¾c. to 47¾c. per pound in carlots, and 45¾c. to 48¾c. per pound in l.c.l. quantities.

Dioctyl Phthalates—Total output of di-n-octyl, di-iso-octyl, and di-2-ethylhexyl phthalates in February was 7,259,157 pounds, compared with 6,821,065 pounds in January, according to figures from the Tariff Commission.

Tricresyl Phosphate—February production of this material totaled 1,548,941 pounds, as against 1,763,514 pounds produced in January, according to information from the Tariff Commission.

Miscellaneous Materials

Sales of paints, varnishes, and lacquers by manufacturers, which normally account for 96 percent of total Canadian production, increased to $103,387,046 in 1952 from $96,998,397 in 1951, reports received from the Dominion Bureau of Statistics by the US Department of Commerce indicate.

The total for December, 1952, was $6,462,175, compared with $5,258,235 in December, 1951. Trade sales, exclusive of water paints, accounted for about 45 percent of the December total; industrial sales, 44 percent; water paints, 8 percent, and unclassified, 3 percent.

Casein—Importers said that the market for casein was unchanged. Prices of Argentine material were at the same levels that they were at during previous weeks. Trade sources stated that word has come from the Argentine that the government agency, IAPI, has definitely taken control of the sale of casein down there. One source added that they permitted 1,200 tons of casein to be exported. Some of the material was felt to be previously placed orders. Prices were still within the general range of 16¼c. to 17c. per pound duty paid, although some grades were still getting 17½c. One importer said that the price seemed to be a trifle firmer in the Argentine.

Consumers were said to be more inclined to buy in the past week. Both consumer and dealer inventories have been reduced, contributing some impetus to buying. The mills still have not come out to purchase heavily, or very far ahead. French casein was being offered at prices competative with Argentine material

Dried Blood, Soluble—Prices were unchanged from previous schedules. Current quotations were in a range of 16½c. to 18c. per pound in carloads, and 18c. to 25c. per pound in less than carloads. The range is a spread between the various grades.

Litharge—The price of pig lead was advanced a fraction last week, which was reflected in a ½c. increase of this oxide. Current quotations were at 14¼c. per pound in carlots, and 15¼c. per pound in less than carlots.

Natural Resins

Importers said that the market for the gums was still rather quiet. No particular turn upward has been noticed since the warmer weather started. Prices have remained steady. One source stated that price schedules were about as low as they could get. Therefore, no further reductions were anticipated. At the same time, business did not warrant any increases. It was added that some items were frequently sold below replacement costs. Stocks were said to be fair. There was ample material available to take care of the current demand. Supplies at the primary sources were sufficient for replacement needs.

Shellac—There has been no particular change in the market for shellac. Prices were generally at the same levels that they have held to throughout the first quarter. Importers said that business has been on the quiet side. Demand was not very high. No real sign of a pickup has been seen since the warmer weather has started. Activity in floor finishing has not been as high as former times.

Naval Stores

Rosin, Gum

(USDA, per 100 lbs.)

	Fri.	Mon.	Tues.	Wed.	Thur.
Drums—					
I	7.45	...	...	...	...
K	7.45	...	7.50	...	...
M	7.45	...	...	...	7.35
N	7.45	7.45	...	...	...
WG	...	...	7.65	7.65	7.84
WW	7.83	7.93	...	7.85	7.70
Bags—					
K	7.34‡	7.24	7.28‡	...	...
N	7.30	...	7.30	...	...
WG	7.42‡	...	7.40‡	...	...
WW	7.57‡	...	7.58‡	...	...
Tankcars—					
	...	7.23‡	...	...	...
Sales, USDA	978*	1,277*	632*	300*	3‡

New York
(per 100 lbs., c.l., Friday)
B—M $8.48, N $8.50, WG $8.60, WW $8.75.

Turpentine, Gum

(USDA, per gal., 7.2 lbs.)

Price	.53†	.53†	.53†	.53†	...
Sales	8,000¶	14,000¶	34,000¶	10,000¶	...

New York, Friday, per gal. 7 lbs., tankcars, 61c., l.c.l. 72c.

*Drums. †Tankcars. ‡Carlots. ¶Gallons. §Average price.

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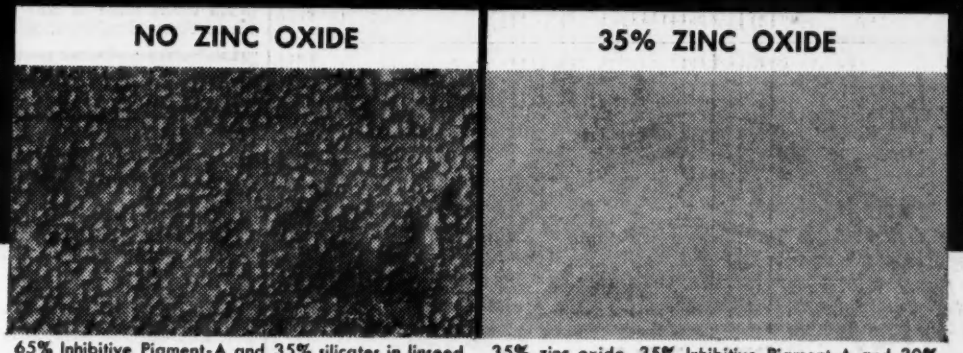

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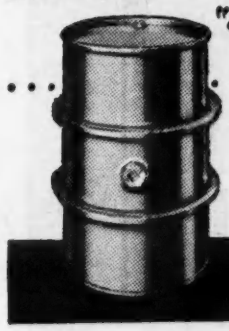

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Business Census, Lacking Funds, May Be Called Off

The Census of Manufactures, Minerals, Business and Transportation, which was scheduled to be taken this year, will have to be called off unless congress relents and provides the necessary funds, it was made known last week. Funds for the census, as well as for the preparatory work in connection with the 1954 Census of Agriculture, were denied April 30 by the house appropriations committee in reporting the annual money bill for the Department of Commerce.

Plans for the 1953 census of business and industry had been completed. Schedules had all been drawn up and notices sent to firms to be covered of the various reports and data they should retain for the census. As matters now stand, it was explained, unless the funds are restored to the bill, all this preparatory work will be washed out. Because of the way the census law is written, the census must be taken this year or not at all; a postponement is not allowed. If not conducted this year, the next census, therefore, cannot be made until 1958.

Kellogg Appoints Flek Corp. Molding Powders Distributors

Flek Corporation, Los Angeles, has been appointed exclusive warehousing distributor for "Kel-F" molding powders on the west coast, by M. W. Kellogg Company, Jersey City, N. J. All standard grades are stocked and are available immediately from Flek, it was announced. While a major portion of "Kel-F" stocks are still allocated to defense production, Flek has some molding powder available for non-defense purposes.

N.Y. Paint Club to Elect

The New York Paint, Varnish and Lacquer Association will hold its annual meeting and election of officers May 14 in the Biltmore hotel, New York. A reception will be held at 6:30 p.m. followed by dinner at 7 o'clock.

Dow Introduces Plastic Guitar

Dow Chemical Company, Midland, Mich., introduced a plastic guitar at a press conference in New York last week, which Amos Ruddock, of the plastics merchandising department, called "the beginning of a new epoch in plastics engineering." Introduction of the instrument followed a lengthy materials research program by Dow on formulations of polystyrene and ethylcellulose.

American Polymer Reports Opening of Plant in Brazil

American Polymer Corporation, Peabody, Mass., has announced the official opening of the plant of its Brazilian associated company, Polymer Products Quimicos do Brazil, Sao Paulo. The complete plant was designed and constructed by American Polymer in the United States and forwarded to Brazil last June through its export department, Chemicals Export Company.

Polymer Produtos Quimicos do Brazil is the first all purpose polymerization plant in South America to meet the needs for rasin polymers for the leather, paint, plastic, textile, adhesive, and agricultural industries, it was reported. Dr. Ryan, of American Polymer, has been appointed general manager in charge of production for the Brazilian Company. Before joining American Polymer he was on the staff of the American Research & Development Corporation, Boston.

Witco Adds Gruber

Witco Chemical Company, New York, has announced the addition to its Chicago plant staff of Walter J. Gruber, who will supervise the manufacture of paint driers. Mr. Gruber will also be engaged in technical service on these products. He had previously been with McGean Chemical Company, Cleveland, Ohio.

Paint Meeting in Buffalo Tonight

The Western New York Paint and Varnish Production Club will hold its annual election of officers and council representatives at a meeting tonight in the 40 & 8 Club, Buffalo, N. Y.

Trade Briefs

Standard Paint & Varnish Company is manufacturing a new enamel finish being sold under the trade name "Castle Tone."

Pittsburgh Plate Glass Company has announced the retirement of Powers Pace, manager of "Pennvernon" and store front sales.

TWO IMPORTANT NEW BOOKS

AN INTRODUCTION TO PAINT TECHNOLOGY

A SURVEY

By Members of the Oil & Color Chemists' Assn.
157 pages • 1951 • $3.25

A concise but comprehensive primer for students and beginners who wish to enter the paint industry. It may also serve as a refresher for those who are not familiar with the latest developments in the paint and lacquer industries.

The most important aspects of the manufacture of paints from the raw materials to the finished paint and lacquer are covered in this book.

Solvents and driers, drying oils, natural and synthetic resins, spirit varnishes and cellulose lacquers are critically surveyed. The various inorganic and organic pigments and lakes, as well as extenders are discussed in detail. Paints, enamels and other pigmented finishes, their application and testing, including defects and hazards, are adequately treated. The manufacture of finishes, the dispersion and wetting of pigments, the operation and types of paint mills and the mixing and thinning equipment used in these industries are also covered.

VISCOSITY AND PLASTICITY

By E. N. da C. Andrade, D. Sc., Ph. D.
82 pages • 1951 • $2.25

The well-known scientist E. N. da C. Andrade outlines in these three lectures the phenomena of viscosity and plasticity with great lucidity and in an enjoyable style. The subject is covered with a special view to those who deal with viscous and plastic materials on an industrial scale, and especially to paint technologists.

Lecture I discusses the nature and theories of liquid viscosity. It aims at establishing general principles and deriving from these an understanding of the very complex behavior of flowing liquids and solids. Knowledge of the physical principles may help manufacturing engineers and chemists to improve their products and to expand the fields of application of viscous liquids.

Lecture II deals with the flow of simple liquids, suspensions and gels. It also considers thixotropy, dilatancy and other properties affecting flow.

The flow of solids is the topic of Lecture III. It covers sols and gels which can be poured slowly or with difficulty.

The 32 figures included in the book are of the same outstanding quality as the text itself and add to the value of this concise but most enlightening text.

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Valspar Output Vice-Pres.

George T. Elser has been elected vice-president in charge of production of the Valspar Corporation, New York. Mr. Elser has had more than twenty-five years' experience in paint manufacturing. Prior to joining Valspar, he was vice-president and general manager of the Benjamin Franklin Division, Sears Roebuck & Co.

Wormser Becomes Interior Department's Minerals Head

Felix E. Wormser became Assistant Secretary of the Interior April 24 at swearing-in ceremonies held at the White House with President Eisenhower as an interested witness. As Assistant Secretary for Mineral Resources, Mr. Wormser will have supervision over the Bureau of Mines, the Geological Survey, division of geography and the division of oil and gas.

Mr. Wormser is a former secretary-treasurer and later vice-president of the Lead Industries Association in New York, as well as vice-president of St. Joseph Lead Company. He served as a member of the Munitions Board (nonferrous metals); and was also a member of the primary lead producers' industry advisory committee of the War Production Board in World War II.

Archer-Daniels Introduces New Type Vinyl Plasticizer

Archer-Daniels-Midland Company, Minneapolis, Minn., has announced the introduction of a new polymeric type vinyl plasticizer. Under development for three years, the new product is an epoxydized soybean derivative.

Although production is licensed under a Department of Agriculture patent, processing technics have been improved and perfected by the Archer-Daniels research staff, which includes pilot processing. This new plasticizer is said to have nine primary features:—Non-volatility, low extractability, excellent mill behavior, very good low-temperature flexibility, excellent ultra-violet light resistance, excellent heat resistance, low viscosity, outstanding stabilizing properties and economical prices.

In addition, it is odorless and light colored. Pilot plant samples are available now for evaluation work. The new plasticizer is recommended by Archer-Daniels for use in flexible sheeting, flexible film, plastisol and organisol dispersons, molding and extrusian compounds.

Food Machinery Appoints Farley to Consultant's Post

Food Machinery & Chemical Corporation has announced the appointment of Franklin Farley as management consultant to its chemical division's administrative staff in New York. Mr. Farley's business experience includes service with Arthur D. Little, Inc.; Phosphate Mining Company, of which he was treasurer and in charge of operations, and International Minerals & Chemical Corporation, for which he had been vice-president in charge of the phosphate division for twelve years.

N.Y. Paint Technicians to Hear Address on Chemist in Management

The New York Paint and Varnish Production Club will hold its next regular meeting on May 7 in the building trades employers' association building, New York. Dinner will be served at 6:30 P.M. The speaker will be C. F. Rassweiler, vice-chairman of the board of Johns-Manville Corporation, who will cover "The Role of the Paint Chemist in Modern Business Management."

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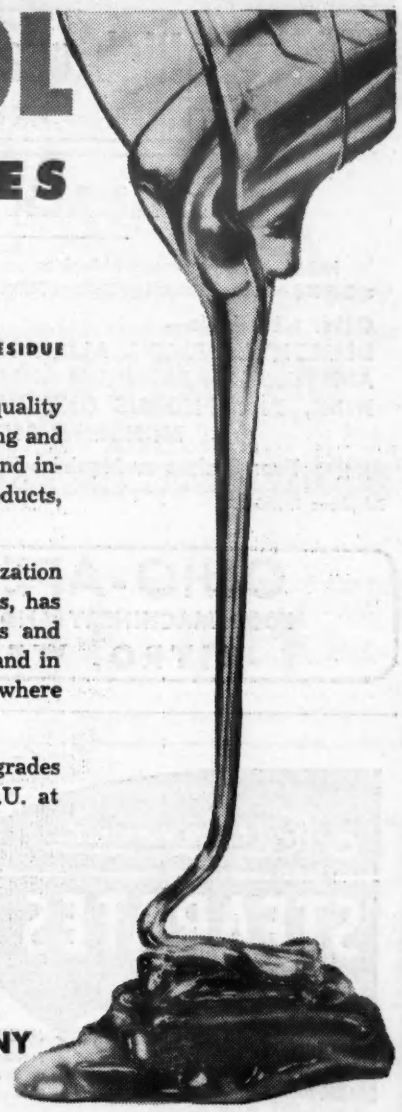

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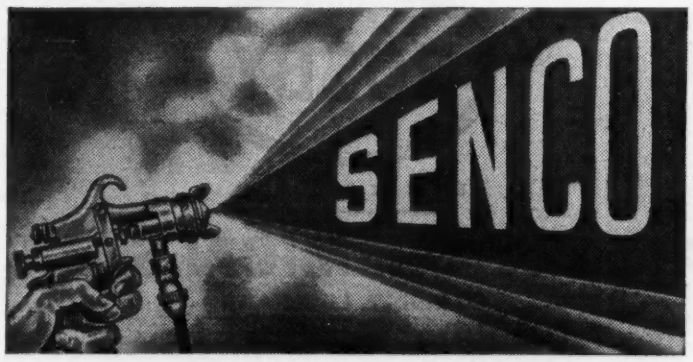

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N.Y. Paint Technicians Set Corrosion Symposium

The New York Paint and Varnish Production Club will sponsor a symposium on "Corrosion Preventing Paint Coatings" at Newark College of Engineering, Newark, N. J., May 13. George Diehlman, head of the industrial coatings department, National Lead Company, New York, will introduce the subject and serve as moderator.

The subjects to be covered and the panel members who will discuss them are:—"Metal Surface Preparation," L. R. Whiting, development engineer, Bakelite Company, division of Union Carbide & Carbon Corporation, New York; "Environment Application and Other Influencing Factors," Henry F. Payne, technical editor, American Cyanamid Company, New York; "Paint Coatings—Water Exposures," Joseph Bigos, director of Research Steel Structures Painting Council, Mellon Institute, Pittsburgh, Pa., and "Paint Coatings —Water Exposures," R. P. Devoluy, technical director, C. A. Woolsey Paint & Color Company, New York. A question and answer period will follow the talks. A colored motion picture dealing with the theoretical aspects of corrosion will be shown.

Cobalt Salt Restrictions Are Liberalized by NPA

Prohibition on certain uses of cobalt salts and compounds made from residues not suitable for metallurgical applications were removed May 1 by the National Production Authority.

An amendment of schedule 2 of order M-80 permits the use of such cobalt salts and compounds in coloring glazes, glass batches, porcelain enamels, ceramic body stains, porcelain enamel color oxides, glass batch colors, paint or plastic pigments. The amendment also permtis the use of these and other forms in paint driers for use in exterior house paints only.

NPA officials said that relaxation of controls has been made possible by a recent increase in imports of cobalt salts and compounds made from residues. It was emphasized that there has been no increase in the available supply of other forms of cobalt for the United States, in relation to present overall requirements. Military and other essential needs will require continuing its control after June 30, when the present Controlled Materials Plan expires, NPA said.

Nickel Distribution Plans Discussed by Trade, NPA

Plans for handling requests for adjustments of nickel allotments to both large and small users were discussed April 28 at a meeting of the industry advisory committee of primary consumers of nickel for chemicals and electroplating with the National Production Authority.

Industry representatives told NPA that the shortage of nickel in comparison with requirements is creating hardships for many small users and also is posing extreme difficulties in meeting military and atomic energy orders. They also asked NPA to reduce the paper work involved in reporting their uses of nickel.

Delaware Chemicals Elects Bamberger Research Chief

Delaware Chemicals, Inc., has elected Dr. Seligman B. Bamberger vice-president in charge of research and development. Dr. Bamberger joined Delaware Chemicals in 1950 and served as director of technical service on the use of pentaerythritol in resins as well as supervisor of process development on the production of pentaerythritol. In addition to these duties, he will now direct the research and development of new products of interest to the company.

Ansbacher-Siegle Appoints

Eric N. Blackstead, vice president of Ansbacher-Siegle Corporation, Staten Island, N. Y., has announced the appointment of two new sales and service district managers to represent the company in the south and midwest. Carl A. Henlein has been transferred from the Chicago office and appointed southern district manager with headquarters in Louisville, Ky. Arthur E. Heldberg has been appointed midwest manager to operate from the company's Chicago office.

Epifanes Dutch Paints, Varnishes Now Being Made in United States

Epifanes Dutch marine paints and varnishes are now being made in the United States—marking the first time they have ever been produced outside the Netherlands, it has been announced by Thomas Van Yperen, president of the newly-formed Epifanes Marine Finish Company, Fairlawn, N. J. The line includes undercoat paint, boat finishing paint, boat varnish and seashore house paint—all now made in the United States, he added.

ODM Issues Certificates

—Continued from page 3

$3,679,200 invested and 100 percent allowed.

Barite ore—Milwhite Company, Harvey, La., $13,422 invested and 25 percent allowed.

Copper—Copper Creek Consolidated Mining Company, Pinal County, Ariz., $149,000 invested and 75 percent allowed.

Copper-tin concentrates—First Uranium Corporation of Nevada, Imlay, Nev., $160,709 invested and 75 percent allowed.

Nickel and nickel alloys—International Nickel Company, Huntington, W. Va., $280,000 invested and 50 percent allowed.

Nylon-6 filament yarn—American Enka Corporation, Enka, N. C., $1,000,000 invested and 40 percent allowed.

Oxygen—Burdette Oxygen Company of Cleveland, Huntington Park, Calif., $176,700 invested, on which 60 percent is allowed, and $72,500 invested on which 45 percent is allowed.

Phenol—Loven Chemical of California, Hewhall, Calif., $3,670,000 invested and 50 percent allowed.

Sulphuric acid — Mathieson Chemical Corporation, Pasadena, Tex., $380,000 invested and 45 percent allowed.

Titanium — Cramet, Inc., Nashville, Tenn., $25,740,500 invested and 90 percent allowed.

Tungsten—Mineral Engineering Company, Salt Lake City, Utah, $197,381 invested and 70 percent allowed.

Tungsten products—Wah Chang Corporation, Glen Cove, N. Y., $12,913 invested and 50 percent allowed.

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Glidden Co. Regional Sales Managership to Hans Kohler

Appointment of Hans L. Kohler as sales manager for the southern and Texas region of the Glidden Company's paint division has been announced by A. D. Duncan, vice-president and general manager of the paint and varnish division. Formerly manager of the Glidden's Memphis, Tenn., branch, Mr. Kohler now will make his headquarters in Dallas, Tex.

Mr. Kohler joined Glidden in 1942 as a salesman after several years' service with another paint concern in New Orleans, La., and Quincy, Ill. He will be replaced in Memphis by N.T.R. Burton, a salesman in the Mississippi region. Mr. Burton joined Glidden in 1948 after previous experience in the paint field.

Merz to Be Feted Tuesday

Dr. August Merz, who became president of the Synthetic Organic Chemical Manufacturers Association in 1926 and held that post for many years thereafter, will be presented with an honorary scroll by the New Jersey chapter of the American Institute of Chemists at its annual meeting, to be held May 5 at the Military Park hotel, Newark, N. J. Dr. Merz is the son of the founder of Heller & Merz, which was acquired by American Cyanamid Company, and served as vice-president of Cyanamid's Calco Chemical Division, Bound Brook, N. J.

Bids Wanted

Acetone, 2,104 gals., Contracting Officer, Dallas Chemical, 1200 Jackson St., Dallas, Tex., inv. 44, May 18.

Aluminum powder, 2,787,163 lbs., atomized, Commanding Officer, Ordnance Amm. Center, Joliet, Ill., inv. 106, May 8.

Aluminum sulphate, From 60,000 to 360,000 lbs., for water and sewage treatment purposes, Commanding Officer, Rock Island Arsenal, Rock Island, Ill., inv. 764, May 8.

Aqua ammonia, 59,860 1-lb. bots., 180,220 4-lb. bots., 19,670 lbs. in 35-lb. cbys., Navy Purchasing Office, 111 E. 16th St., N. Y. 3, N. Y., inv. 1512, May 21.

Calcium carbide, 150,000 lbs., Corps of Engineers, 180 New Montgomery St., San Francisco, Calif., inv. ENG-665, May 11.

Calcium hypochlorite, 10,000 lbs., inv. 2-B-29088-R, May 6, Gen. Services Adm., Business Service Center, 7th & D Sts., S. W., Washington 25, D. C.; 2,000 lbs. in 20-lb. metal dms., 67,400 100-lb. dms., inv. 160, May 7, Contracting Officer, N. Y. Chem., 180 Varick St., N. Y., N. Y.

Carbon tetrachloride, 22,700 gals., Navy Purchasing Office, 111 E. 16th St., N. Y. 3, N. Y., inv. 1518, May 20.

Chemicals, misc., 20,100 lbs. sodium metaphosphate, 46,000 lbs. sodium nitrate, 119,600 lbs. sodium sulfite, Navy Purchasing Office, 111 E. 16th St., N. Y., N. Y., inv. 1534, May 22.

Chloroform, 9,991 lbs., tech. grade, Contracting Officer, N. Y. Chem. Procurement District, 180 Varick St., N. Y., N. Y., inv. 164, May 8.

Chromic acid, 332,700 lbs., inorganic, Navy Purchasing Office, 111 E. 16th St., N. Y., N. Y., inv. 1529, May 22.

Disinfectant, 36,883 gals., germicide and fungicide, Navy Purchasing Office, 111 E. 16th St., N. Y. 3, N. Y., inv. 1517, May 14.

Drugs, misc., 2400 bxs. phenyl ephrine hydrochloride jelly, 28,800 bots. potassium permanganate tablets, 2,016 bots. quinidine sulphate tablets, 21,696 bots. thiamine hydrochloride tablets, inv. 1334, May 8; 4,824 1-lb. bots. acetylsalicylic acid, 3,456 1-oz. bots. chloral hydrate, 3,456 1-oz. bots. codeine sulfate, 11,136 1-oz. bots. colloidon, flexible, 768 bots. cupric sulphate, 2,112 ¼-lb. bots. ichthammol, inv. 1341, May 11; 30,144 1-pt. bots. aluminum hydroxide gel, 8,208 1-pt. bots. belladonna tincture, 6,672 1-pt. bots. benzoin tincture compound, 864 ¼-lb bots. cardamon tincture compound, inv. 1349, May 11; 1,200 bxs. mersalyl and theophylline injection, 5,760 bots. phenylephrine hydrochloride injection, 24,000 pkgs. amobarbital sodium, inv. 1330, May 4, Armed Services Medical Procurement Agency, 84 Sands St., Bklyn. 1, N. Y.

Dye, 1,398 lbs., green for colored smoke mixtures, Contracting Officer, N. Y. Chem. Corp., 180 Varick St., N. Y., N. Y., inv. 171, May 12.

Hydrogen peroxide, 20,640 lbs., Navy Purchasing Office, 111 E. 16th St., N. Y., N. Y., inv. 1537, May 13.

Insecticide, 685 gals. in 5 gal. pails chlordane, concentrate, water emulsifiable, 6,144 1-gal. cns. liquid, clear, water-white, inv. 1515, May 11; 7,750 lbs. DDT powder, 19,729 gals. insecticide, liquid, kerosene solution, inv. 1514, May 3, Navy Purchasing Office, 111 E. 16th St., N. Y. 3, N. Y.

Lime, 280 tons, hydrated, Purchasing Officer, Wingate Ordnance Depot, Gallup, N. Mex., inv. 25, May 13.

Mercuric Chloride, 4,500 lbs., crystals, Contracting Officer, N. Y. Chem. Procurement District, 180 Varick St., N. Y., N. Y., inv. 159, May 18.

Nitrogen, 1,000 to 200,000 cu. ft., Contracting Officer, Rock Island Arsenal, Rock Island, Ill., inv. 770, May 11.

Paints, 51,000 gals. coating, solution, spray type, adhering, inv. B-54,525, May 13; 101,000 gals. bituminous emulsion coating, inv. B-54,529, May 18; 7,304 gals. synthetic enamel, 21,185 gals. interior oil paint, inv. JD-MIPR-14604-E-07-255 53-Q, May 21; 95,400 gals. ready-mixed interior oil paint, 11,000 gals. ready-mixed flat paint, inv. JD-B-54,526, May 25, Aviation Supply Office, 700 Robbins Ave., Phila. 11, Pa.; 750 gals. coating compound, 250 gals. primer, 250 gals. thinner, inv. 404, May 11; paint remover, inv. 405, May 12, Contracting Officer, Mobile Air Materiel Area, Brookley AFB, Ala.; 4,500 gals. enamel, 500 gals. oil paint, inv. 107, May 11, Central Purchase Branch, Ft. Knox, Ky.; 800 gals. exterior oil paint, inv. ENG-57, May 8, Purchases Branch, G-4 Section, Ft. Bragg, N. C.; 4,834 gals. asphaltic liquid mix roof coating, inv. ENG-184-539, May 11, Chicago Procurement Office, Corps of Engineers, 226 W. Jackson Blvd., Chicago, Ill.; 4,000 gals. obliterating lustreless lacquer, inv. 42, May 14, Contracting & Purchasing Officer, Savanna Ordnance Depot, Savanna, Ill.; 60 qts. liquid paint drier, 60 gals. synthetic enamel, 100 lbs. white lead, etc., inv. 601, May 8, Contracting & Purchasing Office, Aberdeen Proving Ground, Bldg. 305, Aberdeen, Md.

Potassium chlorate, 15,573 lbs., inv. 166, May 11; 22,114 lbs., inv. 157, May 7, Contracting Officer, N. Y. Chem. Procurement District, 180 Varick St., N. Y., N. Y.

Salt, crushed rock salt for period July 1, 1953 to June 30, 1954, inv. 9, May 8, Supply Officer, Vet. Adm. Center, Martinsburg, W. Va.; 80 tons granular No. 7 pure rock salt for use in zeolite type water softening equipment, inv. 8, June 8, Contracting Officer, Vet. Adm. Center, 5500 East Kellogg St., Wichita 8, Kans.

Sodium bicarbonate, 107,400 lbs., Navy Purchasing Office, 111 E. 16th St., N. Y., N. Y., inv. 1531, May 21.

Sodium hypochlorite, 121,000 qts. solution, 34,000 gals. same, Navy Purchasing Office, 111 E. 16th St., N. Y., N. Y., inv. 1533-B, May 22.

Trichloroethylene, 426,680 gals., Navy Purchasing Office, 111 E. 16th St., N. Y., N. Y., inv. 1476-B, May 21.

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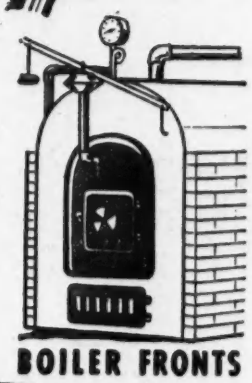

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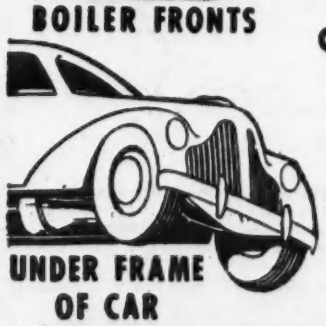

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Springfield Paint Now Affiliated with Kyanize

Springfield Paint Manufacturing Corporation, Springfield, Ill., has become an affiliated company of Kyanize Paints, Inc., Everett, Mass., and will operate in the future as Seck-Devault Paint Company. In making the announcement, Renshaw Smith, jr., Kyanize executive vice-president and general manager, pointed out that the Springfield affiliate will continue to manufacture, sell and distribute the Seck-DeVault line on an expanding basis just as it has been doing in the past.

Union of the two companies gives the Seck-Devault line additional financial and research facilities and provides Kyanize with western manufacturing facilities, it was stated. Under the new setup, Mr. Smith became chairman. J. A. Seck remains as president. Henry D. Bainbridge of Kyanize become vice-president at Springfield. All other officers at Springfield will remain in their present posts.

Hercules Sales Facilities Opened in St. Louis, Houston

The establishment of a sales office in St. Louis, Mo., and the opening of a sales sub-office in Houston, Tex., have been announced by the synthetics department of Hercules Powder Company, Wilmington, Del.

John S. Autenrieth has been named manager of the St. Louis territory, which includes Missouri, Kansas, Arkansas, Texas, Oklahoma, Louisiana, Mississippi, and parts of Illinois and Tennessee. Henry D. Heiser has been named resident technical sales representative in Houston. Previously, there had been a sub-office in St. Louis.

Chemical Industry Urges

—Continued from page 3

to negotiate below a peril point found by the commission.

"We feel that two years of operations under the 1951 act has made it questionable whether such broad authority should reside in the President. Many findings of injury made by the Tariff Commission have gone unremedied. The Simpson bill, which takes this discretion away from the President and makes it mandatory for him to carry out the recommendations of the Tariff Commission, is a big step forward. Even so, we can conceive of situations where, for reasons more easily known to the President, it would be contrary to the national interest to follow the recommendations of the commission. We think this contingency should be provided for."

Arbitration of Differences

Mr. Singer had no suggestions to offer on arbitrating the differences between the President and the Tariff Commission. Mr. Wagner proposed, however, that the President's decision not become binding unless concurred in by congress within a reasonable period.

Mr. Wagner said that another improvement provided by the Simpson bill over present law, which SOCMA endorses, is its clarification of the specific nature and type of injury to be considered in making peril point and escape clause findings. The 1951 act required that "serious injury to the domestic industry producing like or directly competitive articles" be found. The Simpson bill would make the new test "unemployment of or injury to American workers, miners, farmers, or producers, producing like or competitive articles, or impairment of the national security."

He pointed out that under the 1951 act it was possible, as now construed, to have serious injury to a particular company or a segment in a particular industry and still have no relief under the escape clause procedure. Mr. Wagner said that it was essential that all workers, all companies, large and small, and segments of the industry should be protected against cheap labor conditions abroad, otherwise the injured will go unattended. Accordingly, he supported the amendments of the Simpson bill on this point.

Simpson Bill Wording Hailed

Mr. Singer also endorsed the efforts of the Simpson bill to clarify this section of the law, but differed on phraseology. He believed the new wording was a decided improvement over the existing law, but considered the lack of any qualifying word before the words "unemployment of or injury to" as opening the door to frivolous applications for investigations, which would not only paralyze the operations of the Tariff Commission, but might have an unhappy national and international effect. He suggested substitution of the words "serious injury to the domestic industry, or any segment thereof, producing like or competitive articles, or impairment of national security."

Other important provisions of the bill which found the two chemical industry spokesmen in agreement on included sections reducing from one year to six months the time within which the commission must report to the President on escape clause investigations; tightening the present law on imposition of countervailing duties against subsidized exports, and elimination of the injury test under the anti-dumping act.

Pyrite Flotation Concentrates

On behalf of the members of MCA who import pyrite flotation concentrates for the manufacture of sulphuric acid, Mr. Singer asked for an amendment to paragraph 391 of the tariff act of 1930 exempting pyrites, pyrites concentrates, or any other article containing not more than 1½ percent of lead from the duties now imposed on lead. The Customs Bureau has recently ruled that a duty is payable on infinitesimally small quantities of lead contained in pyrite flotation concentrates even though the lead is not recoverable. This has imposed an undue burden on the importers because the costs of sampling and analysis frequently exceeded the amount of duty assessed.

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Pioneer Latex Sets Up South American Affiliate

The establishment of Placco de Colombia, Ltda., has been announced by Stephen G. Paliska, president of Pioneer Latex & Chemical Co., Middlesex, N. J. The South American affiliate will occupy a 10,000 square foot building near the city of Cali in Colombia's Valle del Cuaca region near the Pacific coast.

Placco de Colombia will manufacture latex compounds, mastic flooring, industrial asphalt emulsions and other maintenance and construction specialties. Sales manager for Placco de Colombia will be Octavio Trujillo, while the plant will operate under the supervision of H. L. Goodemote, former assistant manager at Pioneer Latex's Middlesex plant.

Colton Appoints Agents

The Colton Chemical Company, Cleveland, Ohio, has announced new distributors for its products. Moreland Chemical Company, Spartansburg, S. C., will distribute Colton products in the southern textile area; Van Waters & Rogers, Dallas, Tex., in Texas and Oklahoma, and Braun-Knicht-Heimann Company, San Francisco, in the Pacific west coast states. The distributors will carry warehouse stocks of materials in their area for immediate delivery to users in the adhesive, textile, paper, paint and coating industries.

N.E. Paint Technicians Meeting Set for May 21

The New England Paint and Varnish Production Club will hold its regular meeting May 21 in the University Club, Boston, and has invited members of the New England Paint, Varnish and Lacquer Association to attend.

Jerome F. Healy, jr., of the New York law firm, Healy & Fusfield, will speak on "Labor Relations." The address will be followed by a question and answer period. The business meeting will be preceded by a cocktail hour and dinner.

American Gilsonite Issues Data

American Gilsonite Company, Salt Lake City, Utah, has issued a folder on its "Gilsulate" insulation, explaining the application and use of the material in insulating hot buried pipes and protecting them against corrosion. According to American Gilsonite, laboratory and engineering tests show the material to be one of the most effective thermal insulators available for commercial use.

Pitts. Plate Linseed Oil Unit Plant Managership to Cornell

Appointment of Reuben W. Cornell as factory manager of Pittsburgh Plate Glass Company's linseed oil division, Red Wing, Minn., has been announced by E. D. Peck, vice-president in charge of the firm's paint and brush division. Mr. Cornel' joined the linseed oil division in 1922. Prior to his appointment he had served as production manager of the division for twenty-two years. In his new position, Mr. Cornell succeeds Ernest F. Seebach who retired after over thirty years of service with the company.

Paraguay Has New Tung Oil Plant

A new tung oil processing plant located in the Alto Parana region of Paraguay was dedicated recently, according to the American Embassy, Asuncion. The machinery, all of German manufacture, received its shake-down operation several months ago and is now ready for the 1953 tung harvest. The capacity of the new plant is about twenty-three short tons of kernels per twenty-four hour day. The location of the new plant in the tung growing area is an important departure from the former custom of transporting the kernels from southern Paraguay to the processing plants located near Asuncion.

Oil and Bentonite Lands

—Continued from page 3

tion to start within three months after issuance of the lease.

For both leases, bids must be submitted to the director, BLM, Washington 25, D. C., on or before the above-mentioned deadlines. Each bidder must submit with his bid one-fifth of the amount bid by him in cash or by certified check or money order made payable to the Treasurer of the United States and file a statement of his citizenship. The successful bidder for the Kansas oil land will be required to post a surety bond for $15,000. For the bentonite lease, the bond will be in the sum of $1,000. Minimum bonus bid for the bentonite lease is $5 an acre.

Alkyd Enamel Announced

The new "Lyt-all Flowing Flat," an odorless type alkyd flat enamel for interior walls, has just been announced by Pratt & Lambert, Inc., Buffalo, N. Y. Twenty-four modern colors, together with whites, comprise the line.

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Oils, Fats and Waxes

Weakness developed in the oils and fats market last week as a result of continued slow business, combined with the large stocks of soybeans, held in all positions April 1, which broke that market sharply. This was reflected in soybean oil and other edible oils and prices were down fractionally except peanut oil which was lifted 1 cent per pound for prompt delivery. Coconut oil also was easier, dropping 1½ cents per pound, with the drastic decline of $22.50 per ton in copra. Palm kernel oil was unsettled and off fractionally.

All grades of castor oil were reduced 1 cent per pound by crushers and Brazilian oil declined slightly. Demand for drying oils continued light and spotty. Linseed oil was inactive, though consumers absorbed a good volume against former contracts. Tung oil quiet and lower. Oiticica also was unsettled and declined fractionally.

Tallow and greases were in moderate demand for domestic and export account. Soapers took fair sized quantities and prevailing prices. Exporters also were in the market and buyers of choice white as well as lower grades of greases and tallow at the usual premiums.

Further strength featured the carnauba wax spot market and quotations were lifted 2 to 3 cents per pound. Stocks here were light and holders were not offering. Trading was slow as consumers remained on the sidelines, preferring to await further developments. Offers for shipment from Brazil also were strong and replacements were maintained at minimum floor prices.

Improved trading in soybean meal improved the tone of the market and prices were lifted $1.50 per ton. Business was confined to nearby delivery, buyers showing little interest in forward needs. Peanut meal was easier and old process was off $1.50 per ton in the Southeast and quotably unchanged in the Virginia area.

Price Trends

Advanced

Oil, peanut, crude, 1c. per lb.
ref., 1c. per lb.
Soybean meal, $1.50 per ton.
Wax, carnauba, chalky, 3c. per lb.
N. C., crude, No. 2, 2c. per lb.
No. 3, 2c. per lb.
ref., 3c. per lb.

Reduced

Copra, $27.50 per ton.
Lard, ¼c. per lb.
Oil, castor, Braz. No. 1, ¼c. per lb.
dom., No. 3, 1c. per lb.
dehyd., bodied, 1c. per lb.
unbodied, 1c. per lb.
Coconut, crude, 1½c. per lb.
ref., 1c. to 2c. per lb.
Corn foots, 95%, ¼c. per lb.
oil, crude, ¼c. per lb.
ref., ¼c. per lb.
Cott[illegible] per lb.
ref., ½c. per lb.
Oiti[illegible] per lb.
Oleo, ¼c. per lb.
Palm kernel, ½c. per lb.
Soybean foots, 95%, ⅝c. per lb.
50%, ½c. per lb.
oil, crude, ½c. per lb.
ref., ½c. per lb.
Tung, ¼c. per lb.
Peanut meal, old proc., $1.50 per ton.
Wax, bees, Afr., ½c. per lb.

Comparative Price Indexes

(100=1949 average)

Last week	Prev. week	Last month	May 2, 1952
94.13	94.13	99.73	95.36

(*For Current Prices see page 9*)

Vegetable Oils

Castor Dehydrated—Prices were reduced 1c. per pound for all grades. Bodied was lower at 28.60c. per pound, tankcars; unbodied, 27.60c. per pound and No. 3, 23.75c. per pound, same basis. Drums, carlots, were 1c. and less carlots, 1½c. higher.

Coconut—Crude was sharply lower declining 1½c. per pound for nearby and forward delivery. Nearby oil was quoted at 15c. per pound, tankcars, f.o.b. Pacific coast; 14⅞c. first half May; 14⅝c. per pound, second half and 14¼c. June. Nearby delivery at New York was quoted at 16½c. per pound, tankcars.

Copra—Shipments were weak, declining $27.50 per ton. Trading was slow. Shipments were quoted at $197.50 per ton, c.i.f. Pacific coast.

Corn—Crude oil was slightly easier and was quoted at 14¾c. per pound, tankcars, f.o.b. mills. Refined was lower at 18c. per pound, tankcars, New York basis.

Cottonseed—Market for bleachable cottonseed oil futures was weaker, last week scoring moderate declines under fairly liberal liquidation principally in nearby deliveries. The market was unsettled by lower crude cottonseed oil, soybeans and allied markets. The smaller consumption of oil during March also was a depressing factor. Commission houses were sellers, with trade buyers showing limited interest and the market manifested little rallying power. Consumption of refined oil in March totaled 1,326 tankcars (corrected), compared with 1,550 in February and 1,775 in March last year. Visible supply at end of March was estimated at 20,544 tankcars, against, 21,244 in February and 13,388 in March 1952. Tenders on May contracts totaled 80 tankcars and were reported stopped.

Crude oil was inactive and easier. Tankcars declined ½c. to 14¾c. per pound, tankcars, f.o.b. Valley and 14½c., Texas.

Sales and prices of prime summer yellow cottonseed oil futures in tankcars (60,000 pounds) on the N. Y. Produce Exchange for May 1 follow:—

	Sales	Cents per pound High	Low	Close
May	328	17.34	16.80	16.85S
July	331	17.09	16.48	16.48S
September	36	15.60	15.23	15.20@15.23
October	6	15.12	15.12	14.85@15.00
December	44	15.00	14.80	14.75@14.80
January	1	15.00	15.00	14.65B

Total sales, 746 contracts.

Memphis.—Crude cottonseed oil 14¾c. per pound, tankcars, f.o.b. mills. Crude soybean oil, 12⅞c. bid and 13c. asked, tankcars, Decatur. Sizable quantities of cottonseed meal sold for export. Domestic demand also more active at government recently reduced prices.

Linseed—Steady movement was noted for delivery of oil against former contracts, while new business continued slow. Raw oil was offered at 15.2c. per pound, tankcars, and could be shaded on a bid of 15c., f.o.b. Minneapolis. Tankcars were unchanged at 16.45c. per pound, New York delivery. Market held steady, due to the low cost of linseed meal.

Minneapolis.—Buying interest in linseed oil continued dull the past week. Generally, buyers were in a cautious mood, coming into the market only when forced to make replenishments for nearby requirements. Most users were said to be getting low on contracts, indicating that more fill-in business is forthcoming. A large number of oil users were said to be on a price-date-of-shipment basis. Raw linseed oil prices held steady at 15c. a pound for tankcars and at 15.4c. open warehouse basis, both raw basis, bulk, f.o.b., Minneapolis.

Shipments of linseed oil, in pounds, were as follows:—

	1952-53	1951-52
Past week	4,860,000	9,840,000
Since Sept. 1	243,630,000	279,660,000

Flaxseed—Market was quiet and unsteady. Flaxseed stocks in all positions on April 1, totaled 19,700,000 bushels, about 5 percent less than 20,600,000 bushels a year ago and the smallest April 1 total since 1948. Stocks were 29,366,000 bushels, April 1, 1949, and 31,232,000 bushels in 1950.

Minneapolis.—Demand for cash flaxseed tapered off as very little was being offered for sale from country points, most of it coming

Cottonseed Crush: March

Cottonseed received and crushed and production of cottonseed products during March and February, 1953, as compiled by Bureau of the Census, follows:—

Cottonseed

	March (Tons)	February (Tons)
Receipts	38,317	*99,635
Crushed	479,620	*549,969
Stocks at mills	949,436	*1,390,739

Crude Oil

	March (Pounds)	February (Pounds)
Produced	165,269,000	*180,541,000
Stocks at mills	63,503,000	*90,539,000

Refined Oil

	March (Pounds)	February (Pounds)
Produced	170,577,600	*173,738,000
Factory and warehouse stocks	[1]812,596,000	*723,763,600

Cake and Meal

	March (Tons)	February (Tons)
Produced	231,782	*252,173
Stocks at mills	208,612	*210,115

Hulls

	March (Tons)	February (Tons)
Produced	105,670	*121,274
Stocks at mills	82,479	*64,807

Linters

	March (Bales)	February (Bales)
Produced	[2]152,408	*174,391
Stocks at mills	[3]197,301	*276,352

*Revised.

[1]Commodity Credit Corp. owned 522,069,000 pounds of refined cottonseed oil on March 31.

[2]Includes 39,047 bales first cut, 105,992 bales second cut, and 7,369 bales mill run. Average gross bale weights: Total, 509.2; first cut, 576.7; second cut, 606.1; and mill run, 501.1 pounds.

[3]Includes 85,991 bales first cut, 92,624 bales second cut, and 18,686 bales mill run.

For Late Market Developments, See Page 4

from storage. There was no change in the trading basis, with crushers offering to pay May future price for No. 1 cash seed, spot or to-arrive. The price range was narrow, limited to about 3c. a bushel and around $3.80 a bushel, delivered Minneapolis. Bookings of seed in the spot cash market totaled 15 cars and around 2,000 bushels in trucklots. To-arrive purchases amounted to only 16 cars and 9,000 bushels in trucklots. Actual arrivals of flaxseed for all accounts totaled 49 cars, compared to 57 cars in the preceding week and compared with 49 cars a year ago. Shipments from Minneapolis totaled 44 cars as compared to 34 cars the previous week and three cars a year ago. Very little flaxseed planting progress was made during the week due to unseasonable temperatures. Scattered moisture was received in Upper Midwest belt, however.

Receipts and shipments of flaxseed, in bushels, were as follows:—

	Receipts		Shipments	
	1952-53	1951-52	1952-53	1951-52
Past week.	88,400	244,800	95,200	5,100
Since Sept. 1..	13,158,100	19,999,100	2,577,550	4,090,900

Oiticica—Lack of buying interest created a weaker tone and quotations were off fractionally. Liquid was nominal at 23¼c. to 23½c. per pound, tankcars, New York, prompt delivery, as to seller. Drums were inactive and offered at 25c. to 25½c. per pound, as to quantity.

Olive—Edible oil was scarcer on spot and market continued firm. Offers were limited and quotations ranged from $2.70 to $2.75 per gallon, drums, duty paid, depending upon quantity and seller. Export licenses for shipment of oil in bulk were still suspended. Olive foots were nominal at 15c. to 15½c. per pound, drums, as to quantity. The government was reported to have turned down bids last week for peanuts offered to produce about 16 tankcars of oil.

Palm Kernel—Weakness of coconut oil resulted in lower prices for palm kernel and quotations declined to 16¾c. per pound, tankcars, in bond and steady thereat. Shipments from primary sources were firmer due to increased buying for European account.

Peanut—Crude oil stiffened following the refusal by the government to accept bids for peanuts offered last week to produce about 16 tankcars of oil. Offers of crude became scarce and the market rallied to 23c. per pound, tankcars, f.o.b. mills, prompt delivery. Previous trading was reported at 21¾c. Refined oil was more or less nominal at 26¾c. per pound, tankcars, New York delivery.

Department of Agriculture set price support for 1953 farmer stock peanuts available to producers at a national average of not less than $237.60 per ton, which is 90 percent of the March 15, 1953, parity of $264 per ton. The average support level is $239.40 per ton for 1952 crop. Support program and prices by types of peanuts and producing areas will be announced at a later date.

Rapeseed—Inquiry was quiet. Refined was more or less nominal at 17c. per pound, tankcars, New York delivery.

Soybean—Crude was weaker with beans and quotations were off fractionally. Crude sold down to 12⅞c. per pound, tankcars, Decatur, May shipment, but later May and June moved at 13c. July was quoted at 12⅞c.; August, 12¾c., and September, 12½c. Refined salad oil declined to 15¾c. per pound, tankcars, New York. Alkali refined and clarified were lower at 15½c. and 15c. per pound, respectively, for tankcars, New York delivery.

Consumption of crude soybean oil totaled 3,636 tankcars during March, compared with 3,530 in February and 3,[illegible], March last year. Visible supply was estimated at 10,897 tankcars, at the end of March, against 11,860 in February and 11,194 in March, 1952.

Soybean stocks in all positions on April 1, totaled nearly 146,000,000 bushels, according to the Bureau of Agricultural Economics. These are the largest April 1 stocks of record, exceeding the previous high on April 1, 1951, by 2,500,000 bushels. They are nearly 16,000,000 bushels more than a year ago.

Sales and prices of prime soybean oil futures on the N. Y. Produce Exchange in tankcars (60,000 pounds) for the week ended May 1 follow:—

	Sales	Cents per pound—High	Low	Close
May	64	13.50	12.94	12.92@12.95
July	96	13.35	12.80	12.82@12.86
September	29	12.73	12.36	12.25@12.35

Total sales, 191 contracts.

Tung—Slow demand kept this market unsettled and quotations were off ¼c. per pound. Tankcars were quoted at 29c. to 29¼c. per pound, New York, spot and 28¾c. for June delivery. Drums were lower at 31c. to 31½c. per pound, as to quantity. Domestic oil also was inactive and more or less nominal at 27¾c. per pound, tankcars, f.o.b. southern mills.

Fats and Greases

Greases—Demand was reported fairly active, chiefly for export. Exporters continued to show active inquiry for choice white. Yellow was in fair request for domestic as well as export. Prices were unchanged and ruled steady. Choice white was quoted at 5½c. per pound,

Soybean Crush: March

Soybeans received and crushed and production of soybean oil and meal during March and February, 1953, as compiled by the Bureau of Census, follows:—

Soybeans

	March	February
	Tons	
Receipts	426,984	262,652
Crushed	613,117	560,357
Stocks at mills	1,488,387	1,674,520

Refined Oil

	Pounds	
Produced	201,036,000	186,396,000
Factory and warehouse stocks	97,391,000	*88,275,000

Crude Oil

	Pounds	
Produced	221,783,000	*200,412,000
Stocks at mills	46,610,000	*43,812,000

Cake and Meal

	Tons	
Produced	493,362	443,736
Stocks at mills	154,223	139,389

*Revised.

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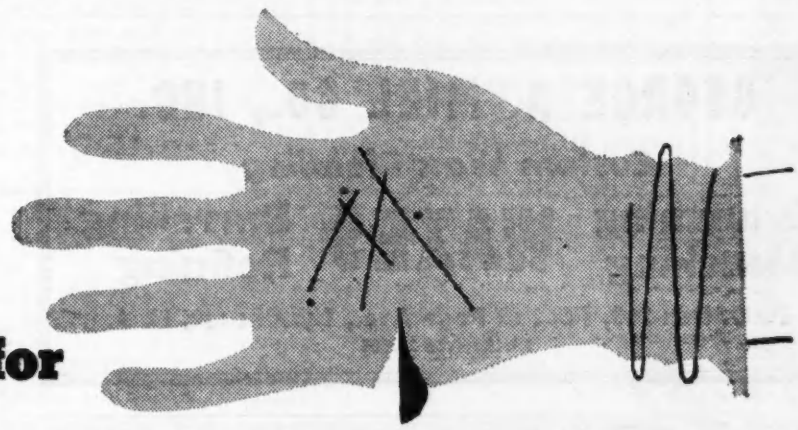
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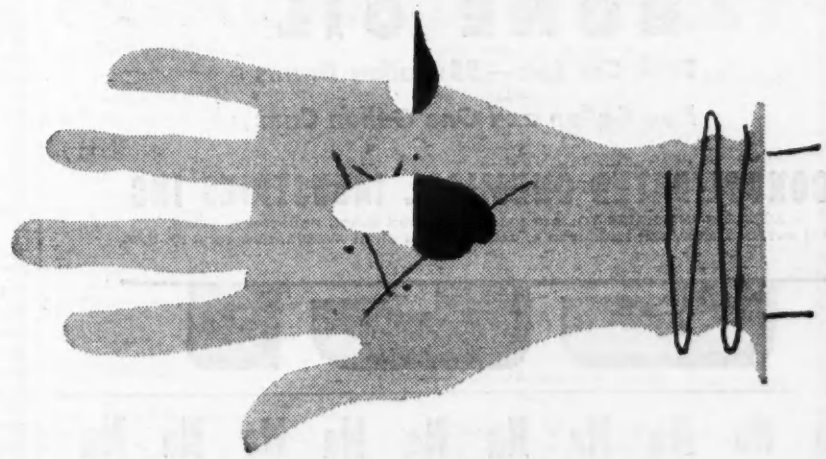

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tankcars, delivered; yellow, 4c. house, 3¾c. and brown, 3¼c., same basis.

Lard—Market was weaker, declining fractionally. Cash lard was lower at 10.55c. per pound, tierces, Chicago.

Tallow—This market held steady under a moderate demand for domestic and export delivery. Soapers absorbed fair sized lots of bleachable fancy and extra at current prices. Bleachable fancy was quoted at 4¾c. per pound, tankcars, delivered; extra, 4½c.; special, 4⅜c. and No. 1, 4¼c. per pound, same basis.

Animal Oils

There was little snap to demand for animal oils as consumers continued to limit purchases to actual needs. Grease oils were quotably unchanged. Oleo oil was unchanged, while oleo stearine was easier at 7c. to 7¼c. per pound, barrels, as to quantity. Neatsfoot oil was in light demand, but steady.

Fish Oils

Cod—Buying interest was reported for replacements from Newfoundland. Tanked oil was steady at 9¼c. per pound, drums, c.i.f. New York for prompt delivery. Spot oil was quiet and unchanged at 10c. to ½c. per pound, drums, as to quantity.

Refined Fish—Refined grades remained steady, despite spotty demand. Light pressed oil was held at 11c. per pound, tankcars, New York delivery and alkali refined, 12c., same basis. Crude menhaden oil was quiet and maintained at 7½c. per pound, tankcars, spot, Baltimore. New crop oil was quoted at 7¼c. per pound, tankcars, Gulf ports, with recent trading at this figure for forward delivery.

Cake and Meal

Cottonseed Meal — Trading improved for nearby delivery after the government reduced the price of government-owned stocks of cottonseed meal $13 per ton last week. Consumption of meal, no doubt, will increase, particularly in the Southeast, but prices are still not favorable in the mid-West and East. Government offerings were the lowest in the market. Meal 41 percent was quoted by the government at $57 per ton in the Mississippi Valley region; $58 Alabama; $59 Georgia; and $60 South Carolina and North Carolina, plus cost of bags and $5 less for 36 percent protein. Solvent meal was $1.50 per ton below old process.

Linseed Meal—Market was quiet, but steady.

Minneapolis.—Linseed meal prices ruled steady due to a lack of offerings. There was no interest in deferred shipment meal. Market firmness developed as crushers reduced their output. Two of the major crushers were out of the market because of labor differences. Area processors said there was enough business on the books for the first couple of weeks in May. Extracted linseed meal, 36 percent protein, was quoted around $63 a ton and expeller meal at $65 a ton, both bulk, f.o.b., Minneapolis, with bags at $4.50 per ton additional.

Shipments of linseed meal, in pounds, were as follows:—

	1952-53	1951-52
Past week	9,180,000	11,460,000
Since Sept. 1	420,160,000	422,420,000

Peanut Feed Meal—Demand improved for small quantities. Prices were adjusted downward in line with other proteins, although supplies were moderate. Forty-five percent old process was offered at $67.50 per ton, sacked Georgia points, and $76 Virginia, May shipment, while solvent process was unchanged at $65 sacked, South Alabama, May shipment. Bids for peanuts offered by the government last week were not accepted.

Soybean Meal—A fairly good demand from feed manufacturers raised prices to $66 to $67 per ton bulk Decatur, May shipment. Mississippi Valley production advanced sharply to $72 bulk, f.o.b. May shipment. A limited production of 41 percent expeller meal was offered at $71 per ton bulk, f.o.b. South Carolina mills, May shipment. Feed manufacturers are still buying on a hand-to-mouth basis. Very good poultry feed business during the last several weeks has contributed considerably to the strength in the soybean meal market.

Waxes

Beeswax—Demand for crude was quiet and African was easy, and lower at 46c. to 46½c. per pound, depending upon quantity. Chilean and Central American grades were unchanged. Refined grades moved moderately for immediate needs.

Carnauba—Trend of prices continued upwards last week and all grades were advanced at least 2c. per pound, except yellow, which was strong but unchanged. Trading was light as consumers were not disposed to follow the market upward. Limited stocks on spot were closely held, and the market was in favor of sellers who were not offering. Sales of No. 3, North country crude was reported at $1.06½ per pound for spot delivery, with prices ranging to $1.07 per pound. No. 3, refined was higher at $1.10 to $1.12 per pound, as to quantity. Chalky was unavailable on spot and was nominal at $1.03 per pound. No. 2, North country was lifted to $1.08 to $1.10 per pound, as to seller. Offers for shipment from Brazil also were light and maintained at floor prices.

Ouricury—Demand was reported limited to actual needs. Refined was unchanged at 74c. to 75c. per pound, on spot as to quantity.

Fatty Acid Production Reported Higher in March

Fatty acid production totaled 34,568,000 pounds in March, a major rise over the 27,051,000 pounds reported for February, according to figures released by the Association of American Soap and Glycerine Producers.

Shipments were also higher in March, totaling 36,651,000 pounds, as against 29,804,000 pounds in February. Total stocks on March 31 declined somewhat from February's 35,143,000 pounds to 34,328,000 pounds. The latter figure was also well below stocks on hand as of March 31, 1952.

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4—6' x 50' Louisville Rotary Steam Tube Dryers.
MISCELLANEOUS: 8—Pebble Mills, porcelain-lined, 5' dia. x 4'; 1—5' x 6'; 6' x 8', 800 gals. each.
4—Traylor Tube Mills, silex-lined, 4' x 13', 4'6" x 18'6", 5' x 22' and 5' x 20'. Also 2—5'6" x 20', iron lined, m.d.
4—Devine #28 Vacuum Shelf Dryers, each 20 shelves 59" x 78", each with condenser & pump.
1—400 gal. Nickel jack., closed Kettle, with condenser and pump.

ONLY A PARTIAL LIST. ASK US TO QUOTE

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331 DOREMUS AVE.
NEWARK 5, N. J.

1—Day 12000 lb. horizontal dry MIXER, 1—D 10, 1250 lb.; 600#, 400#.
1—Patterson Fdry 500 gal. Steel jack., agitated Closed Kettle.
3—Oliver Vacuum Filters, incl. 6' x 6' acid proof, 8' x 12', 11'6" x 14', 11'6" x 18'.
8—Shriver 42" x 42", Cast Iron Filter Presses, Plate and Frame, 18, 27, 36, 54 chambers, 1" cake.
1—Davenport #3A Dewaterer.
1—Mechanical Cooker, 5' x 16'.
1—Shriver 30" x 30", jacketed, cast iron, Filter Press, 20 chambers, 1".
15—Sperry 18" x 18", C. I., Plate and Frame, Filter Presses, 11 chambers.
1—20 gal. B. P. jacketed Mixer, double sigma blades, m.d.
2—Day size 82 Roball Sifters, m.d., 40"x120" screens; 1—Rotex, 20"x48".
2—Glen 340 qt. Mixers.
6—Dopp c.i., Kettles, 80, 150, 600 gal.
1—A.T. & M. Co. 18" susp. Centrifugal, Steel Basket, bott. disch., unloader.
1—Ross #30 Mammoth 50 gal. change can mixer, m.d.; 1—Day 40 gal., m.d.

1—Patterson Stainless 110 gal. Vacuum Mixer, Sigma Blades.

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PARTIAL LIST OF VALUES — SEND FOR NEWS FLASH!

1—Raymond 3-roll High Side Mill, complete.
1—Devine #27 Double Door Vacuum Shelf Dryer, 17—59" x 78" shelves.
4—Devine Vacuum Shelf Dryers, 20, 8, 6 and 4—40" x 43" shelves.
2—Stokes 30" x 8', 3' x 15' Rotary Vacuum Dryers.
1—Link Belt steel 3'10" x 14' Roto-Louvre Dryer.
1—Link Belt Monel 2'7" x 8' Roto-Louvre Dryer.
1—Vulcan 4½' x 50' Rotary Dryer, ⅜" shell.
2—1400 gal., 1000 gal., closed, SS jacketed Kettles.
2—Oliver 8' x 10' Monel Rotary Vacuum Filters.
1—Fletcher 48" Suspended Centrifugal, aluminum perforated basket, motor driven.
1—Tolhurst 40" Suspended Centrifugal, rubber covered perforated basket, motor driven.
1—Tolhurst 32" Suspended Centrifugal, Monel perforated basket, motor driven.
2—Tolhurst 26" Suspended Centrifugals, stainless steel solid baskets, motor driven.
2—Bird 18" x 28", 24" x 38" solid bowl continuous Centrifuges.
1—Hardinge 4½' x 16" Conical Steel Lined Ball Mill.
4—Oliver 3' x 1', 4' x 5', 8' x 12, 11'6" x 14' Rotary Vacuum Filters.
4—Sweetland Filters, #12, 10 and 7.
1—Shriver 36" x 36" C.I. Filter Press P&F, 42 chambers, open delivery, washing.
4—Sperry 24" x 24" C.I. Filter Presses, P&F, 16 chambers, closed delivery.
1—Sperry 24" x 24" Aluminum Filter Press, P&F, 22 chambers, open delivery.
4—Groen 150, 125 gal. SS, jacketed, agitated Kettles.
2—Sharples P16 Monel Pressurtite Super Centrifuges.

CHECK THESE SPECIALS!

1—Hersey 4' x 26' Monel Hot Air Rotary Dryer.
1—Hersey 3' x 26' Stainless Steel Hot Air Rotary Dryer.
1—#2TH Stainless Steel Mikro Pulverizer.
1—Baker Perkins 100 gal. Stainless Steel Vacuum Mixer, dispersion blades.
4—Pfaudler NEW 1500 and 1000 gallon, glass-lined, jacketed, agitated Reactors.
3—Stokes BB2 and B2 Rotary Tablet Machines.
1—Baker Perkins 35 gallon, Stainless Steel, Double Arm, jacketed Mixer, Sigma Blades.
1—Jeffrey 5' x 9' Monel indirect vibrating Hot Air Dryer.
2—Eimco 4' x 5' Rotary Vacuum Filters, complete with drives and pumps, mounted on common base.
2—Pfaudler 100 gallon, glass-lined Still with glass-lined condensers and receivers.
2—Baker Perkins 200 gal. Double Arm, Jacketed Vacuum Mixers.
1—Steel Storage Tank, 10' x 50' welded, ASME, 50# pressure.
1—Heat Exchanger, Stainless Steel, 225 square feet.
2—Baker Perkins 100, 50 gallon, Double Arm, jacketed Mixers, Sigma Blades.

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CHEMICAL EQUIPMENT

CENTRIFUGES
24" Bird, type CH, SS.
40" Fletcher, type 304 SS.
40" Tolhurst, perforated.

COLUMNS
24"x94" ⅛", rubber lined.
6'x29' type 347 SS, 21 trays.
8'x36'x⅜" (2—NEW).

COMPRESSOR—AIR
504 CFM @ 125 PSI w/motor.

CONVERTERS
12,800 sq. ft., 10'6"x36' steel.

DRYERS—MISC
30"x8' Stokes, Model 59AB, vacuum, rotary.
5'x6', Blaw-Knox, Drum, atmospheric.
24"x28' Proctor & Schwartz Conveyor.
6'x35' Louisville Steam Tube, complete.

FILTERS
8'x12' Feinc, rotary, vacuum.
8'x10' & 11'6"x18', Oliver.
No. 7 Sweetland, 172 sq. ft., 41 taps.
36" Shriver, C.I., 36 chambers.
12" Sperry, aluminum, 10 chambers.

HYDRATORS—ROTARY
5'6"x22' Buffalo (2).

KILNS—COOLERS—DRYERS
7'x160'x⅜" (2).
7'x120'x⅜".
7'x60'x⅜".
310-16 Roto-Louvre.
502-20 Roto Louvre.
604-24 Sta. Steel Roto-Louvre.
5'6"x25'x9/16" Allis-Chalmers.
5'x30'x⅜" Ruggles Cole.
4'6"x40'x⅜" Traylor.

REACTORS—ACID GLASS
400 gal. Pfaudler, ASME.
500 gal. Pfaudler, ASME.

REACTORS—STAINLESS STEEL CLAD
3,000 gal. Jackt'd. ASME (NEW).

STORAGE TANKS
1350 gal. vert. 78"x5'3"x½" ASME.
3400 gal. 7'4"x10'x⅜" type 430 SS.
4100 gal. 5'x28'x¼".
6000 gal. 8'x15'x⅜" vert. ALUMINUM.
6500 gal. TANK CAR TANKS, 76"x28'.
8500 gal. 8'x23'x5/16" vert. (NEW).
12,000 gal. 8'x32'x¼" (NEW).
15,000 gal. 10'6"x23'x¼" (NEW).
135,000 gal. 30'x26' w/coils.
(We have facilities for building of new tanks. Send us your inquiries.)

PRESSURE VESSELS
1050 gal. 4'x12'x½" 106 PSI.
1200 gal. 42"x16'x5/16" ASME 125 PSI.
1250 gal. 4'x14' 106 PSI.
1650 gal. 66"x11'x⅜" jktd., glass-lined 150 PSI
8200 gal. 8'x23'x2" 390 PSI (4).
16,000 gal. 96"x45'x¾" ASME 150 PSI.
30,000 gal. 10'x47' ASME 50 PSI.

MISCELLANEOUS
AUTOCLAVE—2000 gal., jkt. & int. 200 PSI.
REBOILER — 2200 sq. ft. 84"x16'x⅜", 960—11/16" tubes, 40 PSI.
CONDENSER—Surface, 1035 sq. ft. Braun.
CONVEYOR — Belt, 18" troughing, 100' cc. rubber covered.
CONVEYOR — Screw, 16" SS, 16" pitch 15' long.
CRUSHER—2 roll, 14"x16" spiked rolls, NEW.
DIGESTER—Jktd. 3900 gal. ASME U69, 75 PSI.
ELEVATORS—Bucket, 10' to 50' centers, 5"x5" to 15"x12" buckets.
KOMBINATOR—SS, Flowmaster K200 & motor.

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4—Stainless Steel Bubble Cap Columns, 6' dia. x 30' high, 20 plates, Type 347 St. St.
4—650 ton Hydraulic Presses, 27" x 27", 18" dia. rams.
2—Stokes RD-3 rotary 15-punch pellet presses.
1—Shriver 36" C. I. Filter Press, 20 chamber, closed dely.
2—1000 gal. Rectang. Stainless Steel Tanks.
2—St. St. Shell & Tube Heat Exchangers, 368 sq. ft. ea.
1—Buflovak Atm. Double Drum Dryer, 24" x 36".
2—Tyler Hummer Screens 3—deck, 4' x 5', type 31.
1—Stainless Steel Pressure Vessel, 600# WP, T304, 18" dia. x 9'4" L.
140—Stainless Steel Flanged Gate Valves, 1", 1½", 2" & 3".
6000 ft. Stainless Steel tubing, T304, 16 ga., 1½" & 2" OD, 6' lengths.
1—1250 gal. Stainless Steel Tank with coils, closed top, ¼" T304, Agit.

CHEMICAL PLANT

2—St.St.Jkd. Agit. Tanks, 450 gal.
3—St. St. Vacuum Tanks, 260 gal.
6—St. St. Tanks, 15, 100, 150, 200 gal.
1—St. St. Exchanger, 23 sq. ft.
1—St. St. Column 8" D x 26' H.
1—St. St. Purification system—110 gal. Kettle, 55 sq. ft. vaporizer, 12" dia. column.
3—Adams St. St. Filters.
3—Worthite Pumps.
2—Shriver St. St. Diaphragm Pumps.
2—International #5 St. St. Disc Filters.

PLANT LIQUIDATIONS

AT MARION, IND. (Patrick Henry Brewery): 40 welded steel tanks from 3500 gal. to 12,500 gal. sizes; 10 x 10 82-ton Ammonia Compressor; 4000 gal. Vertical steel cooker Jacketed and Agitated; Sperry 24" cast iron Filter Press, 16 chambers, closed delivery; many other items.

AT NORFOLK, VA. 13 Horizontal welded steel tanks Lastiglas lined, 15,200 gal. cap.

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8—15,000 gal. Vertical Welded Steel Closed Fermenting Tanks, 80 lb. W.P. turbine agitator with 40 HP motor, 970 lin. ft. 3" pipe coil. Excellent condition.
7—3,000 gal. Horizontal Stainless Steel Tanks, insulated and agitated.
40—Stainless Steel Tanks—30, 60, 100, 150, 200, 300, 500, 1,000, 1,250, 3,000, 4,-200, 5,700 gal.
35—Aluminum Tanks, closed, 4, 275, 330 430, 500, 1,350, 1,450 and 9,000 gal.
50—Stainless Steel and Stainless Clad Steam Jacketed Kettles—10, 40, 60, 80, 100, 150, 200, 500 gal.
4—Aluminum Reaction Kettles, Jktd. and Agit., 35, 60, 100 & 250 gal.
3—Aluminum Bubble Cap Columns.
6—Stainless Steel Heat Exchangers, 400, 368, 330, 190, 40 & 8½ sq. ft.
1—Bali & Jewell #1½ Rotary Cutter, stainless steel.
5—Mikro Pulverizers #1-SH, #1-SI, #2-SI. #2-TH and 24" TH.
2—Bird 48" dia. Suspended Centrifugals Stainless Steel Perforated Basket, Plow, Bottom Discharge, 15 H.P. motor.
1—Fletcher 30" Jr. Centrifugal T304 S.S., solid basket.
4—DeLaval Centrifugal Oil Purifiers, models 600, 74-11 and 94-01.
2—Sweetland Filters, #10, #12.
1—Shriver 36" Rubber Covered Filter Press.

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FROM OUR LATEST LISTINGS

Autoclaves, Steel, 2—50—250 Gal.
Dopp C.I. Kettles, 150 and 250 Gal.
Day #4 Dbl. Arm Mixer, 50 gal., 5 HP motor.
Day Dbl. Arm Mixer, 5 Gal., Vacuum Cover S/S.
Reed Lab. Mixer, Dbl. arm, ¼ HP motor.
Robinson 600# Ribbon Mixer.
Day 1000# Ribbon Mixer.
(4) Rotary Syphon Filler, S/S.
Tolhurst 48" undersling Centrifuge S/S.
Banbury #1 Mixer, 40 HP, motor chromed.
Allen Extruder 6".
Royle Extruder #4 and #2.
P&S 3 pass Dryer with flaker.
(2) Louisville Dryers, 6'x50'.
Drum Dryer, 60"x78", single drum, 15 HP.
Dryer Vacuum, 20 shelves, 40x43.

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5'x15' Rotary Kiln, Brick Lined, Complete.

DRYERS AND KILNS

Devine #12 Vac. Shelf Dryer, 40"x42".
2—Allbr. Nell 4'x9 Atmos. Drum Dryers.
1—Proctor & Schwartz 6 fan automatic 3 apron Conveyor Dryer.
1—Buffalo Vac. Drum Dryer, 24"x20".
Gehnrich Gas Fired Dryer, 12 trays, 21"x32"
6—Steam, gas & elect. Dryers.
8—Rotary Dryers, Direct & Indirect. Also Jacketed & Steam Tube.
New Rotary Dryers, Kilns and Coolers

CENTRIFUGALS AND CENTRIFUGES

6—Tolhurst 40" Suspended Type Centrifugals. Bottom Discharge.
8—Centrifugals, 20", 26" 30", 40" & 48". Steel, Copper Stainless & Rubber
11—Sharples No. 5A Stainless Centrifuges, 2 HP. Also No. 6.
2—De Laval Multi Clarifiers, 300 & 301.

FILTERS

1—Vallez Filter #49 with 41 Stainless covered 44½" dia. leaves.
10—Sperry and Shriver, 12", 18" 24", 30", & 36" iron Filter Presses.
Sweetland & Oliver Vac. Filters.

KETTLES AND TANKS

Pfaudler 500-gal. Glass Lined Tanks.
Dopp 350 gal. agit. Jack. C. I. Vac. Kettle.
Devine 36" dia. Impregnating Unit: Jacketed. Liquor & Impregnating Kettle.
100 gal. Jack. Impregnating Kettle
500 & 1,000 gal. closed Jack. Steel Kettles.
2300 gal vert. agit. Jack. Steel Kettle.
600 gal. vert. agit. Jack. Steel Kettle.
8—Jack Kettles, 50 to 2500 gals.
1—250 gal Lead lined Kettle.
Stainless, alum., Copper, Glass Lined, Lead Lined Kettles and Tanks.
New Stainless Tanks, 50 to 500 gals
4—Steel welded horiz. Tanks, 10,000 & 5,000 gals.
Copper Varnish Kettles, 150 to 300 gals.

PULVERIZERS AND MILLS

Patterson Pebble Mills, 6'x8' & 6'x5', Motor Driven.
1—Abbe Pebble Mill, 24"x33". Also Jar Mills.
#1 Raymond Autom. Pulverizer, 20 HP.
1#00 Raymond Mill 30 H.P., complete.
2—#0000 Raymond Mills
Hammer Mills & Pulverizers, to 50 HP
1—Sturtevant 42" Rock Emery Mill.
1—Robinson 22" B.B. Attrition Mill.
1—Lehman 4 roll WC., 12"x36" Steel Mill.
4—Lehman & Kent 3 Roll Steel Mills, 8"x22" 9"x32", 12"x30", 16"x40"
1—Monarch 9"x24" Steel Roller Mill, 3 pr high. Also 7½x20, 4 Roll.
1—9"x24" 1 Pr High Steel Roller Mill.
Houchin 18"x36" 4 Roll Granite Stone Mills
2—U. S. & Premier 1½ H.P Colloid Mills.

MIXERS, SIFTERS & SCREENS

Baker Perkins double arm Mixers, 100, 50 & 9 gals. Also single arm Mixers.
Century 40 & 80 qt. vert. 4 speed Mixer.
Tyler 3'x5' Vibratory 2 deck Screen.
Patterson 3½' dia. Stainless Conical Blender.
1—Master Drum type 1000# Blender.
10—Dry Powder Mixers, 50 to 2,000 lbs.
Day 15 gal. Pony Mixers.
15—Portable Elec. Mixers, ¼ to 2 HP.
6—Lead and Paste Mixers, to 150 gals.

MISC. AND SPECIALS

2—Buffalo 6' dia. Vac. crystallizers.
4—Stokes & Colton Rotary and Single Punch Tablet Machines, ½ to 3".
4—French Oil Motor Driven Expellers.
1—Stokes 2E Paste Filler.
3—Stokes and Day Powder Fillers.
Filling Machines, liquid paste, powder.
Elgin Capper, ½ H.P. Motor driven.
2—Howe Mogul barrel and bag packers.
2—Revolving Pans, 30" & 36"
1—Gould 75 HP 2 stage centrif. Pump.
4—Stokes Vertical High Vac. Pumps.
2—Worth 12"x12"x12" Vac. Pumps.
6—Devine & Buffalo Vac. Pumps.
Soap Machinery for Toilet, Laundry, etc.
Centrif., Rotary, Duplex & Triplex Pumps.
Boilers—Gas, Oil & Coal Water Stills.

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DRYERS (Atmospheric)

3053 S1—P.&S. Continuous Apron Dryer; 12 Section; 43'6" L. x 7'4" W. x 14'6" H.
3668 S1—P.&S. Apron Dryer; 13 unit; 8' W. x 78' L. complete with accessories.
D8-147—P.&S. Apron Dryer; 12 Section; 5 Pass S/S belt; 7'4" W. x 36' L.
D8-160—Jeffery Vibratory Cooler 57"x10' Model H1; 5 amp power.
D11-161—Hersey Rotary Gas Fired Dryer 5'x26' with accessories.
D8-162—Jeffery Vibrator S/S Dryer 57"x10' with unit heater, finned coils, fan and other accessories.

DRYERS (Rotary)

3168—Louisville Monel Counter Current Atmospheric Dryer; 38"x16'.
D11-155—Louisville Rotary Steam Tube Dryers 5'x28' to 6'x50'.
D11-154—Davenport Rotary Steam Tube Dryers up to 6'x40'.
D11-158—Huhn Direct Fired Rot. Dryer; 3'x12' with accessories.
D11-159—Hersey Monel Direct Fired Rot. Dryer 13'x24' with accessories.
3506—Horizontal Steel Rot. Dryer or Cooker; Vac. Jkt. Agt. 4'x7'7½".
3382—Rotary Vacuum Dryer; 52"x102" with agitator and 10 HP motor.
D6-147—Stokes No. 59AA, Rotary Vacuum Dryer; 24"x72" with accessories.
D6-144—Stokes 59B Rotary Vacuum Dryer; 40"x 15' long with accessories.
D6-163—Buflovak S/S Rotary Vacuum Dryer, 50"x20' with Dust Collector and Speed Reducer.

DRYERS (Drum)

1300 McA—Struthers Wells S/S Drum Dryers 5'x10' with accessories.
3026—Buffalo Rot. Vac. Drum Dryer; chrome plated 5'x12' complete.
3414—Rotary Drum Dryer in NICKEL; 48"x46".
3316—Bagley & Sewell Double Drum Dryer; 28"x60".
D9-150—Buffalo Double Drum Dryers; 32"x100"; 42"x120" and 60"x120".
D9-151—Buffalo Twin Drum Dryers; 32"x72" and 32"x92".

DRYERS (Shelf or Tray Type)

3501E3—Devine 20 Shelf Vacuum Chamber Dryer 40"x42" complete with Condenser, Receiver, Vacuum Pump, etc.
3664 N1-2—Buffalo 11 and 12 Shelf Vac. Dryers; 42"x42".
3673 L4—Buffalo 3 Shelf Vacuum Chamber Dryer; 40"x42".
D15-812—Devine 10 Shelf Vac. Chamber Dryer; 50"x62"x76".
D15-809—Stokes No. 138 Vac. Chamber Dryer; 6 shelf 23"x34".
D15-811—Devine Vac. Chamber Dryer; 5 shelves 40"x42".
D15-810—Devine Vac. Chamber Dryer; 16 shelf; 36"x36"; Condenser.
3289—Stokes 16 shelf Steam Heated Dryer; 3'x3'; 6'10" high.
3484 A15—Anets 20 Shelf Humidifier; 18"x26"x 3¼" spacing.
2626—Freas Vacuum Electric Oven; 9¼"x18".
3681—Despatch Electric Oven 500 degrees F; 48"x30"x40"; 7 shelf.

REACTORS

3424 K4—Stainless Reactor; oil heated agitated; 24"x48".
3561—Stainless Jktd. Agitated; 18"x24" with condenser.
3417—Stainless Jktd. Agitated Reactor; 24"x40".
3549—Stainless Jktd. Autoclave; 3000 PSI; Agitated; 10"x15".
3673 L9—Pfaudler Glass Lined Jktd. Reactor; 16"x28".
3544—Pfaudler Glass Lined Jktd. Reactor; 4'x4'; 75 PSI.
3320—Stainless 250 Gal. Agitated Reactor; 36"x50".
3424 K2—Monel 250 Gal. Jktd. Agtd. Reactor; with Condenser and Accessories.
3670—Steel Reactor 4'x4' heated with copper coil unit.
3424 K9—Stainless 475 Gal. Reactor 4'x5' Jacketed and Agitated.
3168—Stainless 500 Gal. Jacketed Reactor; 6' dia. x 30" straight side.
3168 D7—Dopplov Jacketed Reactor; 40"x8' high.
3390—Buffalo 500 Gal. New Jktd. Agtd. Reactor; 4'x5'3" motorized.
3273—Pfaudler Glass Lined Jacketed, Agitated Reactor; 47"x67".
3434—Dopp 650 Gal. Cast Iron Full Jktd. Agitated Reactor; 80"x67".
R4-230—Stainless 600 Gal. Reactor with Reflux Condenser; 5 HP agitator.
3327—Copper Steam Jktd. Vacuum Reactor; 650 gal. 54"x7'.
3113 E2—Copper Vacuum Pan; coil heated; 2000 Gal. 7' diameter.
R4-227—Cast Iron 1000 Gal. Nitre Pot; 6'x6'; agitated 5 HP motor.
3598—Steel 2600 Gal. Jktd. Agt. Reactor; 8'x7'.
R4-231—Stainless Reactor; 2800 Gal. 7'6" dia. 125PSI internal.
R4-229—Steel Reactor; 3000 Gal. 10'5"x4'10"; Jacketed; Agitated.
R4-225—Steel Reactor; 3500 Gal. 6'x16'x6"; Jacketed; Agitated.
2755—Steel Reactor; 54"x96" with steel receiver, same size.

FILTER PRESSES AND FILTERS

3497 S16—Hormann Bronze 12"x12" Press; 14 chamber.
F16-176—Ertel Nickeled 12" dia. Filter Press; 5 Chamber.
2720 R1—Ertel Multiple 3-Way Filter Press with 7 square 12" chambers and 7 round disc 12" chambers, complete with pump.
3673 L4—Shriver 12"x12" Bronze P.&F. 9 chamber Press CI Del. pump.
3673 L12—Perrin Bronze 12"x12" 4 eye, CI. Del. 7 chamber; with pump.
3215—Shriver 18" Recessed C. I. 26 chamber Press; Open Delivery.
F16-172—Sperry 18" Nickel Plated 16 chamber Press; 3 eye closed.
3673 L10—Shriver 18" Aluminum 10 chamber 4 eye; closed delivery.
F16-173—Shriver 24" Rubber Cov. Cast Iron 8 chamber Filter Press.
F16-733—Shriver 24" Nickel Plated 14 chamber Filter Press.
F16-734—Shriver 24" Aluminum 4 eye 24 chamber Closed Del. Press.
3328—Albright Nell Recessed 24" C.I. 40 chamber Filter Press.
F16-736—Shriver 30" Aluminum P.&F. 22 chamber Closed Del. Press.
3454—Shriver 30" Cast Iron 30 chamber Recessed Press Open Del.
3294 C4—Shriver 36" Rubber Cov. C.I. 34 chamber 2 eyed; Closed Del.
3103—Sperry 36" C.I. Type 41 P.&F. 34 chamber Press; 2 eye CI. Del.
3327—Large Lot of Filter Press Skeletons and Frames; all sizes.
3168—Sweetland Oliver Pressure Filter No. 2, 12 leaves; 2" centers.
2535—Sweetland Filter No. 7; 41 Copper leaves on 2" centers.
F14-731—Sweetland No. 10; 18 leaves on 3" Centers.
F14-737—Sweetland No. 12 Filter; 72 Copper leaves; on 2" centers.
3317—Bird Young Rotary Vacuum Filter; 4'x4'; Stainless Screens.
F15-190—Stainless Rot. Vac. Filter 3'x1' with accesories.
F15-169—Oliver Dorrco Cont. Rot. Vac. Filter 4'x1' accessories.
F15-170—Feinc Rot. Vac. String Type Filter 4'6"x6'; S/S. and Alum.
F15-192—Oliver Rot. Vac. Filter 3'x4' with Repulper and accessories.
2729—Oliver Dorrco Rot. Vac. Filter 6'x3' with nickel parts.
F15-200—Oliver Pressure Pre-Coat Filter 5'3"x8' 130 sq. ft. lined with Type 316 Stainless.
F15-201—Oliver Dorrco Type Vac. Filter; 8'x3'; monel screen; 3 HP.
F15-202—Oliver Continuous Filter 8'x6'; steel construction with Stainless accessories; variable speed drive.
F15-203—Oliver Rotary Vac. Filter 8'x14'; 350 sq. ft. accessories.
F15-193—Stainless Lined 5'3"x8' Oliver Cont. Vac. Filter Complete.
3515—Eimco 8'x8' Rotary Vac. Filter with Pump and accessories.
3256 P2—Sparkler Model DC41A Iron Filter with Pump and Motor.
3659 R5—Alsop Stainless 12" Filter 1800 sq. ft. filter area.

MIXERS (Powders and Granulars)

3499—New steel double ribbon Mixers in sizes from 24 cu. ft. to 215 cu. ft.
3333—Sprout Waldron Mixers; 283 cu. ft. 5' dia. x 10' long; center discharge.
2538—Wolf Powder Mixer; 24"x32"x94" motorized with 5 HP motor.
3102—J. H. Day Ribbon Mixer; size 3'x8'9" with top sifter.
3427 P5—Marquette Paddle Mixer; 24"x12' long.
3505—Robinson Stainless Mixer; 8"x24"x26" with Sifter; 2 HP motor.
M29-219—Robinson Stainless Mixer; 54"x12'; 7,000 lbs. 30 HP motor.
3302—Stainless Tumbling Type Mixer; 5'x5' with 3 HP motor.
M26-208—Steel Jacketed Double Ribbon Mixer; 13"x20"x8'; 7½ HP motor.
M29-209—FMC Double Ribbon Mixer; 3'x3'x8' with 10 HP motor.
M29-211—5,000 lb. Steel Mixer; 36"x42"x12' with 20 HP motor.
M29-206—Patterson Conical Blender; 135 cu. ft. with 15 HP motor.
3529—Munson Rotary Batch Mixer, 40 cu. ft.; 5' diameter.
M29-112—Ransome Rotary Drum Mixer; 9'x11'6" arr. for motor drive.
3314—Broughton Double Shaft Paddle Mixer; 41"x43".
M29-205—Sturdevant 2,000 lb. Dry Mixer No. 3; 52 cu. ft. capacity.

MIXERS (Heavy Duty Dough and Mass Mixers)

3293 E5—J. H. Day S/S 5 gal. Double Arm Jktd. Mixer; Vacuum Cover.
3566—Baker Perkins S/S Double Sigma Arms; 12"x6¼"x10"; 2 HP XPL.
3166—J. H. Day 20 Gal. Jacketed Mixer; cored masticator arms; 5 HP.
2949—Ross No. 2 Double Arm Mixer; 16"x12"x 16" with 3 HP motor.
3533 E 3—J. H. Day No. 2; Jktd. 20 Gal. Double Arm Mixer; 20¾"x16"x16".
M25-212—J. H. Day Cincinattus No. 4 Sigma Arm Mixer; 50 Gal.
M26-213—J. H. Day Jktd. Hor. Mixer; 30"x35"x 68" with 5 HP PL motor.
2109—J. H. Day Jkt. Ribbon Mixer; 175 Gal. 28"x26"x70".
2337—W. & P. Type Jktd. Double Arm 100 gal. Mixers, geared both ends.
3677 D1—Baker Perkins Size 17 Class BB Type VII Shredding type Jacketed Mixers; double sigma arms; geared both ends; 43½"x 53"x46".
M13-192—Simpson 24" Laboratory Size Mix Muller.
3668 S2—Lancaster Mix Muller No. 3 with Skip Hoist.
3427—Lancaster Model EAG4 Mix Muller, complete with all accessories.
M13-191—Simpson 6' Mix Muller No. 2 with 25 HP motor and accessories.

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2—500 Gallon Pfaudler Glass-Lined Tanks.....Item No. 592, 593
Stirrer, Motor & Drive.
1—500 Gallon Pfaudler Glass-Lined Tank.....Item No. 587
Stirrer, Motor & Drive, Jacketed.
1—3400 Gallon Stainless Steel Tank.....Item No. 257
Type 316, 11 Gauge; 108" Dia. x 84" Hgt.
2B Inside Finish.

MILLS and MIXERS

1—Abbe Engineering Centrifugal Mill, 25 H.P.....Item No. 567
Master Motor, 3 Ph. 220/440 V. All Stainless
Steel Contact parts; Jacketed, 110 Gallon Size,
Serial VB-365.
1—Fitzpatrick Comminutor, Model D, 5 H.P.....Item No. 834
2—Colton #6 Mixers, Stainless Steel, 5 H.P.....Item No. 818, 830
1—Pony Type Mixer, (J. H. Day).....Item No. 828
w/10 Gallon Stainless Steel Pan.
1—Premier Mill, Type UB7, Serial 134A.....Item No. 112
1—Premier Mill, Type UB7, Serial No. 157A.....Item No. 251
1—Mikro Pulverizer, 3 H.P., Serial #4605.....Item No. 823
(Pulverizing Machinery Co.)
1—Colton Wet Granulator; Type 4WG.....Item No. 808
1—Stokes 43 A Granulator, Stainless Steel.
1—Stokes 43 A Granulator, Iron.....Item No. 799

TABLET MACHINES

1—Colton 3 RP Rotary Press, 17-punch, 3 H.P.....Item No. 983
1" Flat Bevel Punch and Dies.
1—Stokes RD-3 (DS-3); 15-station, 3 H.P.....Item No. 987
1—Colton Model 225 Rotary Press, 25-Station.....Item No. 758
2—Colton 2 RP, 16-punch.....Item No. 749, 755
1—Stokes BB-1; 33-punch, Serial 88686.....Item No. 756
1—Stokes BB-1; 27-punch.....Item No. 982

FILLING EQUIPMENT and LABELERS

1—MRM, 12-Spout Straight Line Filler.....Item No. 155
Stainless Steel Contact Parts.
2—Ivers-Lee Tablet Counting & Filling Race-ways.....Item No. 460, 455
13/32".
1—Stokes & Smith Powder Can Filler, Stainless Steel..Item No. 892
1—Stokes & Smith Powder Can Filler.
1—Pony Automatic Stand-up Labelrite, 1 H.P.....Item No. P-2
Serial 86 MLVA-98900.
1—Filler, 12-Stem, Rotary Vacuum, Kiefer.....Item No. 148
1—Capper, 4-Head, Consolidated Capem; Type B-1....Item No. 152
Serial #218.
1—MRM Rotary Filler, 12-Station, Automatic.....Item No. 146
Serial #1871.
*1—Karl Kiefer, 12-Spout Cleaner, Serial #1105K12....Item No. 163
*1—Karl Kiefer, 24-Spout Bottle Filler, Stainless.....Item No. 168
Steel, Serial #756K13.
*1—Consolidated 4-Spindle Capper, Model C4F.....Item No. 159
*1—World Straight Front & Back Bee-Line Labeler.....Item No. P-3
Model 120.
*1—Conveyor and Drive for Kiefer Cleaner, Filler.....Item No. 171
and Capper.
*1—Beach-Russ Vacuum Pump for Kiefer Line.....Item No. P-1

(*—This is a completely engineered line designed to handle 120 containers per minute.)

ADDITIONAL ITEMS

1—*Toledo Scale, 150 Lb. Capacity.*
1—*Toledo Scale, 400 Lb. Capacity.*
1—*Toledo Scale, 800 Lb. Capacity.*
10—*Coating Pans, 40"; Galvanized, w/Stand & Belt Drive; Colton Type 25C.*
1—*Shaper, Logan, 7" Stroke*.....*Item No.* 419
1—*Acma Bologna Powder Filler*.....*Item No.* 1011, 1012
(Makes and fills Envelopes) without Sealer.
1—*Acme Silverstitch (Unused) CB-IF; 12"*.....*Item No.* 901
Serial No. B10636.
1—*Ilcoway Deionizer, 2-Bed, w/Solubridge;*.....*Item No.* 256
Serial No. 10396.

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for CHEMICAL AND ALLIED INDUSTRIES

1—Zaremba all Copper Triple Effect Evaporator, 100 sq ft. each effect.

1—Fletcher Stainless Steel Suspended Type Centrifuge, 40" Perforated Basket.

1—Sharples Stainless Steel Super D Canter, Model PN-14.

1—Buflovak Type 347 Stainless Steel Rotary Vacuum Dryer, 5' x 20', complete with all auxiliary equipment.

2—Buflovak Vacuum Drum Dryers, 24" x 20".

2—Buflovak Vacuum Shelf Dryers, 20 shelves each.

1—Sweetland #2 Stainless Steel Filter, 12-16" leaves, 28 sq. ft.

3—Devine Vacuum Shelf Dryers, 5 & 9 shelves.

1—Combustion Engineer Stainless Steel Jacketed Autoclave, 500 gal. cap., 300 PSI Internal Pressure.

5—Koven Stainless Steel Jacketed Kettles, 380 gals. cap. ea.

3—Nickel Vacuum Tanks with Agitators & Coils, 230 & 280 gals. cap.

1—Hatfield Stainless Steel Bubble Cap Column, 6' x 16'6" with 7 Trays, 173 bubble caps per tray.

1—Monel Storage Tank, 1300 gals. cap.

1—Buffalo 10,000 gal. cap. Pressure Tank, 125 PSI.

1—Baker Perkins Stainless Steel Double Arm Jacketed Mixer, Sigma Blades, 9 gals. working cap.

1—Baker Perkins Steel Double Arm Mixer, Sigma Blades, 20 gals. cap.

4—Baker Perkins Steel Jacketed Mixers, Fishtail Blades, 100 gals. cap.

1—Baker Perkins Steel Jacketed Mixer, Sigma Blades, 100 gals. cap.

1—J. H. Day Stainless Steel Double Arm Jacketed Mixer, Sigma Blades, 12 gals. working cap.

5—Baker Perkins Steel Jacketed Shredders, 200 gals. cap.

1—Readco Stainless Steel Double Arm Jacketed Mixer, Sigma Blades, 225 gals. cap.

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TANKS—5'x7' cone bottom, ASME, also 3300, 10000, 12000, 15000 gal.

HAMMER MILLS—Wms LGI, Reg. #1, GA 30 w/motors.

FILTERS—Rubber, Sparkler, 18D4, Oliver, 5'3"x3', Laughlin B-4, continuous.

PEBBLE MILLS—Lab. sizes, New Jars, 30x33, 6'x8'.

SCREENS—Tyler Hummer, 3x5, 1 & 3 deck. Selectro 18x48, double.

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VIKING PUMP—4" w/15 HP motor.

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2—S.S. Condensers 370 Sq. Ft.
2—Sweetland #7 & #12 Filters.
2—Filter Presses, 18" Alum. 24" C.I.
5—Wd. P&F Filter Presses 18"-24"-42".
3—Stainless Steel 48" Centrifuges M.D.
1—Bird 12" Cent. Steel, Sus. XP Motor.
1—Tolhurst 49" Rubber Covered Sus. Cent.
3—Vac. Shelf Dryers 6 to 13 Shelves.
2—Drum Dryers 36"x84" & 32"x90".
9—Stainless Kettles & Tanks to 5700 gals.
3—Alum. Bubble Cap Columns 27" & 36".
3—Horiz. Steel Tanks to 20,000 Gals.
1—Pf. 350 Gal. G.L. Still.
1—S.S. 36" Evaporator.
2—Erie City Economic Boilers, 200 H.P.
1—Pf. 500 Gal. Glass lined Jack. Kettle—New.
1—Pf. 250 Gal. closed Glass Lined Kettle.

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#316 Stainless Steel Tanks, new, 100, 200 & 350 gal.
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1—Day mixer, Steam Jacketed, 50 gal. Sigma Blade.
1—Robbins Vibrex 3x6 Vibrating Screen, single deck.
1—Copper Evaporator, steam jacketed, 9'1"x3'9".
60—New Pressure Cookers, 18"x18" & 24"x28".
50—Pumps—steam and electric.
1—New Glass Nash Centrifugal Pump, 100 gpm.
1—Jeffrey Vibrating Conveyor 15' lg, 12" wide.
1—Buflovak Jacketed Impregnating Tank 42"x52".
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1—Ribbon type Mixer, steam jacketed.
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3—New Drum Rollers.
1—A. F. Bartlett Hog Mill & 7½ H.P. Motor.
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4—Stokes Rotary Tablet Machines RD4.
10—New Sharples Oil Purifiers.

SPECIAL:—1—#316 Stainless Reactor, 265 gals. cap. steam jacketed on bottom.
Mead Mill #2 with 7½ H.P. totally enclosed motor & Drayer Feeder—like new.
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Abbe Pebble & Tube Mill, 5'x22'—Burr-Stone Lined.
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3—Tankcar Tanks, 10,000 gal. each, with coils—used for molasses.
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For Sale: Reddington Box Making Machine—type 23C6—1 HP—3 PH 200/440 Volt Motor. OPD 849.

For Sale: Capping Machine Series I SC 13 mm. with equipment—Perfect Condition—Available immediately—Inspection invited. J. T. Baker Chemical Co., Purchasing Dept., Phillipsburg, N. J.

EQUIPMENT WANTED

Wanted—Send us your list of surplus or idle machinery. Interested in large capacity dry & wet Mixers, Rotary and batch Dryers, Pulverizers, all kinds of Jacketed Kettles, Distilling apparatus, Filling and Packaging Units, Stainless steel and non-corrosive Tanks and Vessels. For 38 years we have been buying from single items to complete Plants—Consolidated Products Co., Inc., 13-18 Park Row, New York 38, N. Y.

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Chemical Equipment wanted for defense plant work including autoclave centrifuges, dryers, filters, kettles, mixers, pulverizers and tanks. Also interested in set-up plants, now operating or idle. Give full particulars in first letter for consideration. OPD 839.

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Plant 30 miles from New York City—buildings 20,000 sq. ft., three acres, yard space, railroad siding, boilers, cookers, evaporators, driers, freezers, etc. Will rent or take an interest. OPD 846.

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Chemist or Equivalent to take charge of Flushing Department for Eastern Color Manufacturer. Applicant must have full knowledge of both laboratory and plant equipment, and its operations. Our employees have been informed of this ad. Send complete resume stating experience, and salary expected. Write OPD 819.

Industrial Finishes. Experienced salesman or sales-minded technician wanted by large N. Y. manufacturer for an established territory. Complete training program. Preferred age 28-40. Salary to $6500 plus commission. Bayles Agency, 140 W. 42 St., N. Y.

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POSITIONS WANTED

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ASTM Readies Plans

—Continued from page 7

meetings of the various ASTM technical committees. Scores of technical committees will be in session perfecting and completing work on specifications and tests that have been under way and, initiating new research and standardization work. In addition to the symposiums and groups of technical papers, there will be a number of round table discussions and informal sessions.

Another highlight in the program will be the official luncheon session scheduled for June 30, when H. L. Maxwell, president, will give the annual president's address, forty-and fifty-year members will be recognized, awards of merit presented and other honors awarded.

X-Ray Symposium Planned

At a symposium on "Fluorescent X-Ray Spectographic Analysis," sponsored by committee E-2 on emission spectroscopy, the following papers will be presented:—"Basic Theory and Fundamentals of Fluorescent X-Ray Spectrographic Analysis," Herbert Friedman, LaVerne S. Birks and Edward Brooks, Naval Research Laboratory; "General Aspects of Analytical Applications," J. Sherman, Philadelphia Naval Shipyard; "Applications of X-Ray Fluorescence to Alloy Analysis," R. M. Brissey, H. A. Liebhafsky and H. G. Pfeiffer, General Electric Company; "The Fluorescent X-Ray Spectrographic Analysis of Minerals," Howard F. Carl and William J. Campbell, Bureau of Mines, and "An Absolute Method of Analysis by X-Ray Fluorescence Applied to Stainless Steels," Gordon E. Noakes, Ford Motor Company.

A symposium on "Radioactivity in ASTM Work" will be held under the sponsorship of committee E-10 on radioactive isotopes. At this session the following papers will be offered:—

"Properties and Uses of Radioisotopes," G. D. Calkins, Battelle Memorial Institute; "Applications of Radioactive Measurements to ASTM Work," O. M. Elliott, Sun Oil Company; "Design of Radioisotope Laboratories," G. G. Manov and O. M. Bizzell, Atomic Energy Commission; "Training Personnel in Radioisotope Technics," Donald R. Smith, Oak Ridge Institute of Nuclear Studies; "Instrumentation," E. H. Wakefield, Radiation Counter Laboratories, and "Management Problems Resulting from Radioisotope Utilization by Industry," W. L. Davidson, Atomic Energy Commission. The second half of the symposium will feature a demonstration period and a movie by the Atomic Energy Commission on "Methodology."

Enamels, Ceramics Discussions Set

A symposium on "Porcelain Enamels and Ceramic Coatings as Engineering Materials" will be sponsored by committee C-22 on porcelain enamel. The following papers will be presented:—

"Some Examples of the Functional Use of Glass as A Coating for Steel," G. H. Spencer-Strong, Pemco Corporation; "Resistance of Porcelain Enamels to Weathering," Dwight G. Moore, National Bureau of Standards; "The Chemical Resistance of Glassed-Steel Process Equipment," O. J. Britton and E. A. Sanford, Pfaudler Company; "Acid Resisting Properties of Porcelain Metals," Harold C. Wilson, Vitreous Steel Products Company; "Analysis of the Expected Benefits Resulting from the Application of Coatings to High Temperature Components of A Jet Engine," Allen C. Francisco, NACA-Lewis Flight Propulsion Laboratory; "High Temperature Ceramic Coatings as Applied to Aircraft Power Plants," B. L. Paris, Wright Air Development Center; "The Industrial Processing of High-Temperature Ceramic Coatings," J. H. Terry, Hotpoint, Inc.

"A Study of the Abrasion Resistance of Various Types of Porcelain Enamel," A. V. Sharon, Chicago Vitreous Enamel Product Company. "The Resistance of Porcelain Enamels to Surface Abrasion as Determined by the PEI Test," John T. Roberts, Crane Company; "Torsion Testing as Aid to the Porcelain Enamel Industry," Earl Hoover, Westinghouse Electric Corporation; "The Strengthening Effect of Porcelain Enamel on Sheet Iron as Indicated by Bending Tests," E. E. Bryant, Ferro Corporation; "Tensile Tests of Porcelain Enameled Steels," W. A. Deringer, A. O. Smith Corporation; The Effect of Temperature on the Electrical Resistivity of Several Silicone and Ceramic-Type Coatings," Simon W. Strauss, Lloyd E. Richards, D. G. Moore, National Bureau of Standards; "A Laboratory Evaluation of Ceramic Coatings for High Temperature Applications," Sara J. Ketcham, Naval Air Material Center, and "In Retrospect and in Prospect," summary, W. N. Harrison, National Bureau of Standards.

Yemen to Sell Salt to Japan

The government of Yemen is making arrangements to sell 200,000 metric tons of salt annually to Japan from Salif, the Yemeni press reports. The Salif project is expected to produce considerable quantities of salt within the next six months.

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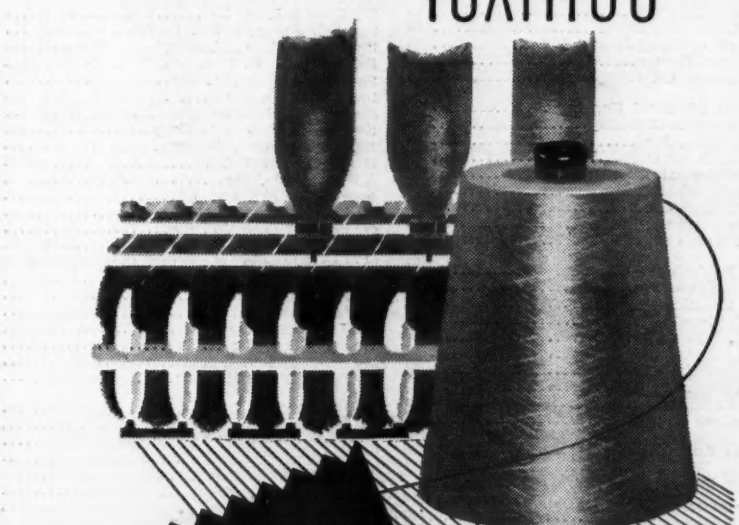

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